



SEQUENCE LISTING

<110> Burmer, Glenna C.
Brown, Joseph P.
LifeSpan BioSciences, Inc.

<120> Nucleic Acid Sequences and Proteins
Associated With Aging

<130> 017473-001110US

<140> US 09/292,758

<141> 1999-04-14

<150> US 60/081,887

<151> 1998-04-15

<160> 147

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 538

<212> DNA

<213> Homo sapiens

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<223> n = a,t,c or g

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cactgtntta	tgacactttc	tctccggggg	ggangggang	gcncgtgact	gtgtannnca	180
atatgtggaa	tnaaatattg	tctataacnt	ntcatcacgt	annacannct	ctattatgca	240
tacctanggg	gannaacncc	tcccttctan	nntnattcng	aaggannngg	anaatnnntc	300
ctncctcnan	ntnancnatn	ncnttnanna	aangacacnt	ggagatcacn	gncctctcnc	360
anaaatnntt	cntcacttgt	cccatcgana	ngtngttntc	gccctgncat	cccnctgt	420
aanatnatch	atcgctnate	ccatgcgncg	ctgcagtcac	ctntgganac	tccccctng	480
gatacnnctna	ntatcntntn	tccttntctg	ttgcntctca	ggcctgctnt	tengttga	538

<210> 2

<211> 338

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)...(338)

<223> n = a,t,c or g

<400> 2

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tccacacatc	agtcccgaca	cnaatgtgat	gtggcacata	aggattctcc	gcatanacac	120
agcgacaatc	tcgtongcat	agtggtaggt	atgatchnaca	tgggcccgat	ccatctaacg	180
gcgcacgcgg	gaccacttgt	cctnataggt	aatgccctgg	ctacatgcta	cttctttact	240
gtncccccac	cccanctaca	ccgaentntt	tnccgggtcta	natacactca	atatgctgcc	300
cctgccctca	tcgaacngtc	tgcaactnata	tactgcan			338

<210> 3
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(441)
 <223> n = a,t,c or g

<400> 3
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 ngcatatatc tacgttaaaa ggcaggacat ttttaaaaagc tctattttct aaatgaaaac 120
 tacgaaagcg ggggtgggttg tggcgggggc agttgtggcc ctgtaggacc ttcggtgact 180
 gatgatctaa gtttcaggag tttctcagag cctctctggt tctttcaatc ggggatgtct 240
 gagggacctt ccgcggcatc tatgcgggca tggttactgc ctctgggtgcc ccccgagcc 300
 ggcgcanggt accgtgcgac atcncgattg gccagctcc tcagccaggt ccacggtcag 360
 acggccccag gcatacgcga cgtccagccg cggcccggcc cgggtgcagca ccaccagcgt 420
 gtccaggaag ccctccccggg g 441

<210> 4
 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 4
 tttgcaaaat gctcaagtgt atttatgcaa cagattggcc gtgtactgag gaggggagcg 60
 caggctgagg gctgaggtag gagtgagggt ctctcctctg cagccaccag gcagctgac 120
 accatgtcca agcgtcattc ctgagaccct cagggtgatgc tcacgtcccc agaacagcag 180
 gctggatgca tggccagagg agctcggcca gcccgggggc tggctcctgag aggtggctgc 240
 aggcgggggtg ggttaagggcc cctcctccag gcagcaggtg acccatagcc cacaccctcc 300
 acaagaagc gggcgtggac agtgtgttca aagctgcagc cgcctggaca ggggcacaag 360
 ttccactggc cttggaagcc gaagctcaga ggacatatgg gaggttctcc ttggaggtca 420
 ggaggggagg cagtgtctggg tcagtgcattg ggggacact 459

<210> 5
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(457)
 <223> n = a,t,c or g

<400> 5
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 tgtaaacata aaatacaaaa caaaacccaa atcttacagt ctagaagcat gccaaagacag 120
 agcattttct gcagacaaa gagtcccgtc aaagtgataa aggacacctg gaaagtggca 180
 ggccaagggg ctggctccctt ccccaagggc actgcatttt tgtgatgaga ttaaaaacaa 240
 accaactcca ctattaaaaa tgctagaaac atggagatag tttagcacca ccattgattc 300
 tggaaatatt tcagcactca aatcgactgc actgagttta atgtcctttc tccagttntc 360
 tgctgaggag gaaagaagga aaacctggag gaagggccct cctgacccca cagagccnta 420
 agactgggag gggatncatg aggatntccc aagtntg 457

<210> 6
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 6
 gcctgttgca gtcctgaggg gatcttctgg cagaggtgtg ggtaggaagc tgagtggcca 60
 ctgggggtgaa gggcagacag aggaggctgt gaccagcagg ctccatcca gatgatacat 120
 gagatggagg cctcctcagc cacactccag ggaggggtgg gtggcaagg ggattcaggg 180
 ataatggcat taataatata agtggtaaac aaataaccaa gaggatctgg ctgggttacga 240
 tacacaaaag ttagcagtaa gagtccgtgc ttccacattc ctatcagaca gatctgagtt 300
 caaatcctgt atgtgtagca ggggtgaggta tctgctttct gtcagagccc atgggggtgca 360
 catctctgag cctagttaca acatttggcc ctagggt 396

<210> 7
 <211> 425
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(425)
 <223> n = a,t,c or g

<400> 7
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 cccgggttca agcaattctc ctgcctcagc ctccctgagta gctggcatta caggcaccog 120
 ccaccacacc cagctaattt ttttttgtat ttttagtaga gatggattag tttggggaag 180
 gtatccattt ttttaaatgg gtgtgcactg cagattacca acttatatta actggctact 240
 gcaggcagac ctaaagaaga ggggtgtact atgctttact aatagaaata cctctttggc 300
 tgggggaggg gagtgcttct gaatagaaat taccactcc tgagttacan ctttagtggg 360
 catattaatg gggatttaaa ttacagtaa aaacaaaaac aaaaacaaaa acaaacctat 420
 tncca 425

<210> 8
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 8
 tatcacacca gaagtttatt atggaacaat cacatatgtt gactctcctt tgaccctcac 60
 tgcagtgcac ttccattact tatcaatctg gggcggggaa aaaggggtgc agccagacaa 120
 gagaatatac aggaaagaag cattgtatat aagcctatgt atttcagtaa tgctgtaca 180
 gggggataca aaatcaggtg ccagcctcca gaaaaaaga gatttttttt ctccctcag 240
 tctcatttgg cccctcggcg cttcctgaag tagcgattat aggcagcatt gtatccataa 300
 accatggcgt acgtttcgca aagtctgtag tcatcacagg ctccctatt gagctcgtgg 360
 acaggcttag agcgttctcg gatcctctct tggactttag ctctccatct ctgctgaggg 420
 gatatgaagg tatttgcatt tctcctgtta atgaagggat taagttcata agattccatg 480
 ctttcatgtg a 491

<210> 9
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 9
 tgtattatth ttctgtattc tcccatatct cactgagctc ctttaaatatt atttttaatt 60
 atttttccag aattttatta atttcctttt cattggaaat tggtgctgca gaactactgt 120
 gtttcttttg aggtatcata ttcccttgct ttttcatgct tcttggtgtct ttatgttgat 180
 acctgtgcat ctggtgtaac aattacttct tccaaaattt aacatttgct ttcatagggg 240
 aggacttttt tcctgaagat gtatctatag tattggttgg gtgaggcact ttggctttga 300
 ttctgggtgc atgcagtagt gtagtctcta cataatttac tcatctgtga gtgggtctgt 360
 tatttcccta atgggttagg atgtcattgt tagtgaggag ag 402

<210> 10
 <211> 439
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(439)
 <223> n = a,t,c or g

<400> 10
 tccccggtcca ggtcagcacc cttccgagac tggaagagaa aacaagaggc gtgttaaaga 60
 ggcccagggt ctgccgagag ctgccacact ggacttcccg gcctccctcc tgcctccctc 120
 ctctctgggca gccctagcag tgggtcgggc cggggcggcg ggacgggaag gaactgagac 180
 cacgagtatt ccaacgggtt tattcttaca caccggcacca tacagagcag cacaggtcac 240
 tgagccgggc ccgcccctta caaaagagca aggacagaga ggccgagggc gcgaggagca 300
 cgcccnnggg cgngggcggt taagagaagc gggggcggag aggttggacg gttgggctgc 360
 tggttcggga gcacagggn cgacaaccgg gagcgaaagt ccacaagtta gcgggcagat 420
 ggcctnttgc ggcacaatt 439

<210> 11
 <211> 415
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(415)
 <223> n = a,t,c or g

<400> 11
 tgatgagctg ccccgactca tccacgggtca tccctggacac ctgggttcgtg tggcctttcc 60
 cagcgaagga gtcgttctcc cccgtctctg aatcccagta attaatgtgt ccgtcgtggc 120
 tcccagagta aatgtaggac ttgccgccgt ttttatgcac cgtcagacac tggatcgatt 180
 tactgtgacc cttgatgacg tgcaggggct tgctgggggt gtttctgtcc agatagttga 240
 ttgtacccgg acaggatgac actgagcagg tggtccttca tgccatagna cnccaagctn 300
 tnggtccaga accgtggagc ccatgggaaa tgtgcttgac cacggagttc acgctgacgt 360
 cccaaatctt ggaagttttg tcccagaagc agaaagcaaa tgggtgctgt cgga 415

<210> 12
 <211> 472
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(472)
 <223> n = a,t,c or g

<400> 12
 ggaagactgt tcacgtaagt taataaaaga gaatggatta aatgcaggcc tggcatttcc 60
 tactggatgt tctctcaata attgtgctgc ccattatact cccaatgccg gtgacacaac 120
 agtattacag tatgatgaca tctgtaaaat agacttttga acacatataa gtggtaggat 180
 tattgactgt gctttttactg tcaacttttaa tcccaaatat gatacgttat taaaagctgt 240
 aaaagatgct actaacactg gaataaagtg tgctggaatt gatgttcgtc tgtgtgatgt 300
 tggtagggcc atccaagaag ttatggagtc ctatgaagtt gaaatagatg ggggaagacat 360
 atcaagtga accaatccgt taatctaaat gggacattca attggggcaa tataggatta 420
 catggctggg aaaaacagtg cccgttgttg aaaggggggg gnggccacag ga 472

<210> 13
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n = a,t,c or g

<400> 13
 atatttagcag aataatttta atagtttatg ttataatctc tcatttgaag gaatagaagc 60
 aagtacttag ctttccacaa ttaagcctta taatgatgcc acaagaataa actaatcccc 120
 aaagtcgaga atgtataatt ttcaaacact tttttaaaaa gctggtgaat aacaaagagc 180
 taggattaaa taattttattt aaaaaaaact tttcncataa atctgtttca taagcatata 240
 taataacatc atatatattc ttaattggag tagaaacgtt tttaaaatta ctgngaaaaa 300
 caagagtng atccagaaa aaattgtgcc ctaaagaaat ctggtttagg ccagggtgcgg 360
 tggctcacac ctgcaatccc agcactttgg tctgcaggtc tgttgcaaag gtct 414

<210> 14
 <211> 525
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(525)
 <223> n = a,t,c or g

<400> 14
 ttgaaataaa cgtcgctcca ttttaatacc gtcttttagta tcatacacat gtgttcagta 60
 gtgagccacc caaagcctcc tgccacagga gcagtagtcg aagcacagag gggaccccg 120
 tctgctgcct ccccatgcag tccagtgatg aggtggatgg agtcctcccc acagtcacac 180
 cccaagcttc ctcttctggt ggaaataggc atcaaacctt gcttggggcgt agtccatgta 240
 cccaaattca atagatgaaa tcttggcctg tacaatggac cacagtcccc agaggaaatg 300
 agatgcaagg gcaaacctat taacttcaag caacatttct tcttttataa tggatttttc 360
 ttcagtactg aggttttcaa agtcattttg gaatgcaggc aagttaactg ggaaataaaa 420
 tgggagctgt tggttcctgg gtngganact tccggatgtt tgccctgaaa aaagggattt 480
 ttcatagcta taatcataca tccactcaca gaagtgaatt tccaa 525

<210> 15
 <211> 316
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(316)
 <223> n = a,t,c or g

<400> 15
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 ccctggctgg ggcagcagga aggcatccag agagccctgg cccagatga ccccagggc 120
 aggaggtcca tgctctaagc cctagggcag gggccgcagt agcaggantt ggtcaaaagt 180
 gctggtgaca gctgaggccg gcccttttcc cctgcacctc ccctcctccc tgnatcacc 240
 cagcaggcaa ttccctgaga caggntctgg gtcctcccaa ccagttgggg tacagttttg 300
 gggcccant agggca 316

<210> 16
 <211> 451
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(451)
 <223> n = a,t,c or g

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<400> 16
cctgggttttaa taagntcttg tttattttga ggaaaaaagg tcccaaacat caggctgttc      60
acaaaaataa cccacagtat caacttttaga aaacaaatct taagactata acactaatta      120
tttttctaga ggatgcattt gacatgccaa ctctcattca caaaaatata ttgttacatt      180
tgtgttgaac tgccccacac agcacactaa tgtgagggtg taacacacat acttctaact      240
caaagctgct ttcaagagct actcaactaa atgagattgc ctttgcagtt aggggaagcaa      300
ctactgaact tatgtatgaa tgaaaagaac tgtactccct gcataacaag agattatttt      360
gggagacagt tgataaaanc catacatcct ttttattgtt aagtcataaa gagggatcna      420
aattaaangg caaaattaca gggtaagggt t                                     451

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<210> 17
 <211> 212
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(212)
 <223> n = a,t,c or g

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<400> 17
cctgccagcc cccatgcccg gtctggagag gaagaagacc accccaaccc cctccacgaa      60
cagcgtcttc tccaccagca caaatcgaag caggaattcc ccacttttgg agcggggccag      120
cctcggcnagg ctccatccag aatggcaaag acagcctaac catgccaggg tcccgggcct      180
ccacgggcttn tgcttctgcc gcagtctctg cg                                     212

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<210> 18
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> n = a,t,c or g

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<400> 18
agagcagggn nggtgttttg agttcttaag caagggcaag ctttaccagg cacttacaga      60
gaagggttgac cgaggatgac agggaaactaa ttgggggagg gatgccatgg ttgaaaacat      120
ggctgggggca gcgagaagtt aagatgaagt cccaagagtc gcaagaacat gcagttccag      180
gacgtgattc tctgcaggga caaagagaga cagcagctac aagtctatag gcagtgacaa      240
aggatctgag atcccatcag agtagacttc aagttgggag aaacctttta ttggcacagg      300
cattccttgt taactttgac aggggtgaag ctgtaatttt tccaaaaacc agttaaaagc      360
tggtttctcc ctaaacttat ttttcccttg tgggtaggtg ggagatccag tnggggtccag      420
aaaccacttc cttgaccctt ttggnntttc cttttttt                                     458

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<210> 19
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(440)
 <223> n = a,t,c or g

<400> 19
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 aagaggaagt ctgaaaagtt tagttttata atattcaagt attgaataga tttctcagta 120
 gggttacttga ggacaggaac tgacttattc atctttgtaa tctctaggct tagcatagca 180
 tgngggggctt tggacgtatt cttagtatat tccccctctgt ctcatgatag aagtcttggt 240
 aaggagacta tttttcccat aggttggttt ttatataaga tatataaggn cattatgtat 300
 cttttcactt gttcctttgt ttcccataaa ttggacattt gttataaaaag cctgattaga 360
 ttcagggttaa acttttttgt ttttttaaag gcaggggtct caccacggtt gcccaggggt 420
 gggctttgaa ctcttggggc 440

<210> 20
 <211> 400
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(400)
 <223> n = a,t,c or g

<400> 20
 aaataatttt atttgcttgg gttctacttg tttgggtttt acatactact gtggcatcct 60
 tcttttaagg atataaacta taattagaaa tgatatggaa aaaagtgact agaaaaacaaa 120
 tctgaaggct tttaaaaatt tcagagtaca ttagtaaatg ctttaaaaga caaccatcc 180
 aataacatat atgcaagtta aactacaaa ttcaatgaca taagaaaata gattggaact 240
 acttttacat tcacctctac agatactcta taatgaacac actagtatga tgataataaa 300
 gcaatcaaga acaattttatc tctcagtcgt tgtatatgtg actatctaca tattttatttc 360
 acacacacat ngccaaatac ccaccataac ttcaatccta 400

<210> 21
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> n = a,t,c or g

<400> 21
 tgtgcaaata actttattac cataaacata tgaatattca tgaatagatt cccaattctg 60
 gggcactcag agagcaaaag caaatgtttc aatttttgtt tacaaaagta tactttacca 120
 attgctgaag aaaaaaattc ataaatctgg agaataaaac attcaaaaaa tcagcacatt 180
 ttccaataaa aaattatgaa aacattatcc ttttggtatt tagtccaatg aaatggagtt 240
 cttttcttct ttgtcttgaa tttcatgaag gtatcagcct gttcattaaa attttgaaag 300
 ttcttagtcc agtggtatga tcttgaagtt atcaggaact tgtattcaag agtccttttc 360
 atagtctttt ccataaatct ccttggaaga aaaagcaatt ttgggactgt agctgatttt 420
 aaatactttg aggaagaatc naagcaactt tctgccag 458

<210> 22
 <211> 285
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(285)
 <223> n = a,t,c or g

<400> 22
 cacactggca tttctcataa aactttatTT ggaaaaagtt atattcaatg acccaatggt 60
 atcaaagtgg aagaggaaaag tgacaactag agattgataa ctatatcctc tgcaatcctc 120
 agaagaaaga aagggggccct ttgggttggt tcagggtaaaag tacatcaatg ggactacagg 180
 naagagaatt tcacacacgg nctttctgna ncagtaattt taatagagac ncctagtggg 240
 tancaacaac tggncagttg ntttttggtt ttttttttcc anact 285

<210> 23
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(534)
 <223> n = a,t,c or g

<400> 23
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 ttgttttact cttcttcctc ttcccttng ccttcacctt cctccatcgt ttccacaatg 120
 agctctgctg tgcaggctcg cttctccaag actcgttgac agccttgacag gtgtacttgg 180
 catcgtcatc cccgcaaaca tcactaataa ttaaagagca gttcccgtcc tcatcgtagt 240
 ctatctggaa gtggcgggac tccctgattg actggtcatc tttgaaccag acaacctcgg 300
 ggtctgggta tccttcaatc ttgcagtcaa atctagcagc acttccctcc acaacttcta 360
 aatcgcaat ggtcttagag aaatagggtt ttacatgagg cttttcctca gcaacagcct 420
 caaggaaaagc ttgggacaca tcttcttcag attctagttt ttctgcattg agcgggctgg 480
 ttgggtgacc cggttgagga nttcnggcc actgagccct gagaatcatt ggcc 534

<210> 24
 <211> 564
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(564)
 <223> n = a,t,c or g

<400> 24
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 ataaaacata gaaatagcca aactttaaaag caaacattca aaaccccaag gtgacaaatt 120
 attgactttt tgtgcaatta agaatacata tatgaagtta ggctaccaag tagtgttatt 180
 acaatgacaa ttcttttagtg caagccctgt tgtgcttgta tataatacat gtactctcac 240
 agaccccaaa acagctgctt taaatgtaca aatgacagct caattcagtc aaatgtggca 300
 aagactcaca ataaagtga ctgctgttaa tttcccaaat taactttaaa aaatccctgg 360
 gagaagtga tcccaggaaa tgaactttcc agatttctac atcctagaat tttggcttgt 420
 caaacacatt tcatagaaat caggtagcat tataaggaac atttgcntat tacnggtcca 480
 tttcaataag gactccagta tatactcccc taatagcttt naaggaatgc ntgcctgaga 540
 gggtattttt tngggggaaa aggg 564

<210> 25
 <211> 594
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(594)
 <223> n = a,t,c or g

<400> 25

tttttttttg	acagacttgt	agtttatttt	gtattttttt	taaataaata	cactttacat	60
taaagaaaaa	ggcctttgat	ttgtaatttc	cacaatgggg	agaaagggaa	gaaaaaaga	120
tttttgaaaa	actgaatcac	aaagaaaaat	agagggagtg	aacttatatc	ctaagttccc	180
tcaactccac	aaaaccaata	tccacaatga	ccatgctgcc	cccaaaccat	gaaggtgagt	240
gaatttaggc	atttaccag	cagacagagt	gccttcctcc	ccacctctgg	cacgaaggaa	300
aacaaattaa	cctgacagca	tatgaggcaa	caaaacaggt	taaaaaatca	tatattatat	360
ttataataaa	atattcttaa	tccttatcaa	tttaagaaac	cacgattttc	cttttcattt	420
aaatacgtat	gtaaaaatgc	ctctatatgt	tttttagaca	tcattttctc	caaagaaaat	480
gaagtgcagg	gacaagagcc	tggtggatat	aagttcatnc	cccagttata	aatgccnggt	540
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<210> 26
 <211> 541
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(541)
 <223> n = a,t,c or g

<400> 26

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gaggtgtcct	ggatttcctg	gttctgtggg	ctccgtggca	atgaattctt	ntgtgaagtg	180
gatgaagact	acatccagga	caaattttaat	cttactggac	tcaatgagca	ggtccctcac	240
tatcgacaag	ctctagacat	gatcttggac	ctggagcctg	atgaagaact	ggaagacaac	300
cccaaccaga	gtgacctgat	tgagcaggca	gccgagatgc	tttatggatt	gatccacgcc	360
cgtacatcct	taccaaccgt	ggcatcgcca	gatgttggaa	aagtaccagc	aaggagactt	420
tggttactgt	cctcgtgtgt	actgtgagaa	ccagccaatg	cttcccattg	gntttagaat	480
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a						541

<210> 27
 <211> 1452
 <212> DNA
 <213> Homo sapiens

<400> 27

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ttaatgctga	aaataaggcg	aagatcaaca	tggcaggcgc	aaagcgcggt	cctacggccc	180
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cagtgccagt	gtctgagcca	gtgccagagc	cagaacctga	gccagaacct	gagcctgtta	420
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```

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atgtgcatct gt 1452

```

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<210> 28
<211> 421
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(421)
<223> n = a,t,c or g

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<400> 28
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agtgatcact ttcataatttg aaaaatgat atgcttcaca tcaatacaat tacttttagtt 180
taaaaaagac aaatgtctaa catgcagctt acatatatga caattctgca ttaacaatga 240
aagtagatta cagcagagtt ttagaaaaca cattggttat tttcaaacag caaaatgaca 300
aggatctaca actacagttt aaggcatatc agcatatctt aaaattaaga aatagacaaa 360
gttctaattg tggtcacagc ttttcaattt atttaaaaaa ttccttcna tacctacata 420
c 421

```

```

<210> 29
<211> 524
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(524)
<223> n = a,t,c or g

```

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<400> 29
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agacaggctc taacaaagtt tacaaattga aattatggag atttcccaa atgaatctaa 180
tagctcattg ctgagcatgg ttatcaatat aacatttaag atcttggatc aaatgttgct 240
cccgagtctt ctgcaatcca gtcncttag gaaattgggt tcccccttt gggagattca 300
gactcagagg nagccagang ggacagggtc agagctgaat taatcacata actactcnaa 360
ttttcctcat tctattgact gngtccagg tatabacaca gcccaaagt gtttttcttc 420
gggcctcngg atgatttgan gaagatgaag aacatgagca atttctcatt gcttaaagga 480
aaacctnggc acataagagg ctgagtgtag tagagtancg gtac 524

```

```

<210> 30
<211> 374
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (1)...(374)
<223> n = a,t,c or g

```

<400> 30

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cagcatctct	cacttcttcc	actcgttctt	ttcgtagtc	cacttggagg	ctaagccctg	180
ggatgggggt	caccttcatg	tccagcatcc	tcttgggtctg	cttggccacc	cactctttgt	240
caaagctttg	cggngagggg	gccgtacaca	tagtgcttct	gccacatgat	aacgagcgcg	300
gtgaaacat	gaagaacatg	ggcaccgccc	acaaccgtct	ttccactcgt	tcgagcccct	360
gttcatntca	ggca					374

<210> 31

<211> 5189

<212> DNA

<213> Homo sapiens

<400> 31

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<210> 32
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(459)
 <223> n = a,t,c or g

<400> 32						
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gattcattaa	taccagagcc	attctggaga	tgccatgtaa	gaaatctgga	gttactctaa	180
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tccttcagga	tgtgcgttgt	gtgctgccga	cagggggggc	gcctggctct	gacacttgan	420
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<210> 33
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 33
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 aacatctgtg ctctcactt cttcctgggc acactgctag actgcatttt ccagtctcct 180
 ttgaggtttag gtgtggacaa gggactaaat tctaccatt ggaaacatta cgtccagacc 240
 tggcctatta aaacattcta catgggatgc tccttttctt ttcccatctg ctggctggaa 300
 ggagaagatc caagaaccta aaggagggtg gagccacaag g 341

<210> 34
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 34
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 tgtgctatct ctagaacaga acaagggaatt gcacctcagg ctcttttaca ttttcagttc 180
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 gggctctgtac taagaacatc ac 262

<210> 35
 <211> 509
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(509)
 <223> n = a,t,c or g

<400> 35
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 gtccttgctc ttgaaaaaca atctcttgct ggaaggctgg attcagtaga ctgcttgggc 180
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 aggcaggcag ccagagcagc ttggcatccc aacctggggc tntagcgggg ttcgggggtt 300
 tcgagcagtc aggggcatgc tccaggggat ccggcttcac cttgggttag ggtcccggtc 360
 acagatccag gttcatggat gcgctgtttg cattttcagg tacttgggtt naggggaagn 420
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 gggttttttt ccagattttc caggggtgg 509

<210> 36
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> n = a,t,c or g

<400> 36
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 aaaccttgcc tggagttaca cactgactat ttgaaaagcc aggagtaaat tacaagtctt 120
 gacaatgggtg ccatgtctgc cagtcagggc agtgttctgc tgatggcact gattcatcag 180
 tccctgggtt aatgcccagg cataaatgtc taatttgaaa atccttttta aatgtaatgt 240

ggcagattgt	gaaggggtggt	tgctaattag	agaagaagga	taacataggc	aaggacattt	300
ccatccctgg	gtgggttttac	ccttttttaa	caaaaacata	ccagtgaaaa	gtaggaaaaag	360
gaaaatcata	cattatgggt	tgaataactg	tttactatgg	ggctacttng	gtgcccagtc	420
cncttgctag	ggnaccctgn	aagggtgaaa	gccaggtta			458

<210> 37
 <211> 3960
 <212> DNA
 <213> Homo sapiens

<400> 37

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```

```

<210> 38
<211> 595
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(595)
<223> n = a,t,c or g

```

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<400> 38
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gaatgaaaaa agtttttaaaa catttttaaac atgttatagt gctgggaagg gaacagtgtg 180
ccctccttaa atgacacgga agggggaggt aagtaatggg tagagaaagg tgcgtccctg 240
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aaagtggctg gtcgtcgaga ggagcacgcc agcagaagag cacaacgata ggcaccgcga 480
cgccggcagc ggtcgacaga acgacaacga cgcggagttt ggctggggca gacggaggag 540
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```

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<210> 39
<211> 416
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(416)
<223> n = a,t,c or g

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<400> 39
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atttgagag tttgggtct cagatactga tataccatca gtgtttacac ccgtaaagcc 120
aaattcaaca gtacaattta tgtaaaacaa catcacttca agatggctaa cantacaant 180
agagagaaaa gtgggggaaa gcttttaaan tgtgttagtt tgaagcntat gaaaatgtac 240
gnntaaaaaac tacatcatc aaacctgaan tcaaaantgt tttgtgggaa catcagttag 300
gagttatact cacttgact gttatttatt gcataaagtc tatgggggn tcattttccn 360
tcatattgga tgganttgag ggnntttcng ggggaaacc tggggtttta aaaaat 416

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<210> 40
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(502)
 <223> n = a,t,c or g

<400> 40
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 tgagtctgta ccacttttatt tgacattttac taaagctgta taaaagccat gcacagttta 180
 tttacagtat tgtacattaa atgataatgt ttgaagatca cacaaagatt tcacaaaact 240
 ataactaata cagaaagatg tgtgaaaaca ttaggggctt tcaaaatttt aggtatggaa 300
 ttttgcaaag attatttttg cttataagtg ttaggcaatc actaacctga aataagtgac 360
 anaaacatgc agatgattac catttcaaca aattgaaaac ctataaatgt ctagctaaaa 420
 gctaaaatat tgtgtagctg aaatactacc atataaccat ggggatttat aaaacaggan 480
 aaaaggttat tccttaaaag tc 502

<210> 41
 <211> 338
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(338)
 <223> n = a,t,c or g

<400> 41
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 agcgacaatc tcgtcngcat agtggttagt atgatcnaca tgggcccgat ccacttaacg 180
 gcgcacgcgg gaccacttgt cctnataggt aatgccctgg ctacatgcta cttctttact 240
 gtncccccac cccanctaca ccgaontntt tnccgggtcta natacactca atatgctgcc 300
 cctgccttca tcgaacngtc tgcactnata tactgcan 338

<210> 42
 <211> 542
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(542)
 <223> n = a,t,c or g

<400> 42
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 ttttcataga atcctctctc aggcctaact gagctgtcat atccatttca gactgacaca 360
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 tcacagggat ctgtttgggc ttntcccctg gactgtgatt cttacccttg ttttggantc 480
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 tg 542

<210> 43
 <211> 3702
 <212> DNA
 <213> Homo sapiens

<400> 43

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<210> 44

<211> 644

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(644)

<223> n = a,t,c or g

<400> 44

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aatgaaagc	gggctgcaag	ccgatanact	aanggggctn	ttaa		644

<210> 45

<211> 496

<212> DNA

<213> Homo sapiens

<400> 45

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aacatgtggg	ccatat					496

<210> 46

<211> 1421

<212> DNA

<213> Homo sapiens

<400> 46

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ggatctggca	cactccctct	ccttgggggtg	agggacagag	ccccacgctg	ttgacatcag	1080
cctgcttctt	ccctctcgcg	gctttcactg	ctgagtttct	gttctccctg	ggaagccgtg	1140
gccagcacct	ttgagccttg	gccacactg	aggcttaggc	ctctctgcct	gggatgggct	1200
cccaccctcc	cctgaggatg	gcctggattc	acgccctctt	gtttcccttt	gggtcaaag	1260
cccttcctac	ctctgggtgat	ggtttccaca	ggaacaacag	catctttcac	caagatgggt	1320
ggcaccaacc	ttgctgggac	ttggatccca	ggggcttatc	tcttcaagtg	tggagagggc	1380
agggtccacg	cctctgctgt	agcttatgaa	attaactaat	t		1421

<210> 47
 <211> 369
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(369)
 <223> n = a,t,c or g

<400> 47		
cgctctcat	ggtggacgag aagactcagc ctgaggcctg cgacactcaa gaagccagac 60	
cgcaagaagc	gctacaccgt ngtagggcaac ccctactnga tggcacctga gatgatcaac 120	
ggccgcagct	atgatgagaa ggtagaggtn ttctnctttg gtagctgcct gtgcgagatc 180	
atcgggcggg	tnaacgcaga ncctgactac ctgccccgca ccatggactt tggcctcaac 240	
gtgcgaggat	tcctgggacc gctactgccc cccaaactnc ccccgagct tcttccccat 300	
caccgtgcgc	tgttgcgatt ctcgaccccg agaagaggcc atcctttttg aagctggaac 360	
agtagctgg		369

<210> 48
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(547)
 <223> n = a,t,c or g

<400> 48		
ttttgttagc	tagtatcttt tattgtcaga acttctgtga gccaacaaac agttttgcat 60	
ggtgttacac	aaagggacaa ggcaaatctt ttttttcgtg tgggtagact tagttggccc 120	
aagtccttaa	aactttttcca tataaaaaata aaaagtccaa gaccagatta tttttcttct 180	
ggtcataaat	gctgatttat ttacaagtgc cttgttcaga ccaccattat aaacttgga 240	
taaaatatgt	gtgtattaaa gcctcagcat ttaatgtcag ggtcctttga agattcactc 300	
aagtgttaag	acgtttcttg aatgcagcgt ctctcccca tagtcaacat ggattattata 360	
tctgtaatct	atccagaatg atagaagcta accttccaag taacactttg tttttaactt 420	
aaatctttta	gacatgaaag actcccaaact gacttcattc ttgttctaaa aaccagcact 480	
ggagccagct	gttgaagagt gggttngtga tacagttanc tgtaggctgc tatcggttat 540	
aatacag		547

<210> 49
 <211> 529
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(529)
 <223> n = a,t,c or g

<400> 49
 gaaccagcgg cccggngac tgagcggaca aacggaagtg tnaggttacg gtctgagaca 60
 tcaccgccaa gctgggcatc ggggagatgg ccgagactga cccaagacc gtgcaggacc 120
 tcacctcggg ggtgcagaca ctctgcagc agatgcaaga taaatttcag accatgtctg 180
 accagatcat tgggagaatt gatgatatga gtagtcgcat tgatgatctg gaaaagaata 240
 tccgcggacc tcatgacaca ggctgggggtg gaagaactgg aaagtgaaaa caagatacct 300
 gccacgcaaa agagttgaag gttgctaata atttatactg gaatctggca tttttccaag 360
 ccaagagaag atcgaatggc tttttgcagc taactactat gtgtagacag gttttatatt 420
 atanagtatg cattcttatt acctagtata tagttagttt gtagagtgat tccccccag 480
 tttcttgaac atgggntctc acatcntgga cctgggcagt tgtgccatt 529

<210> 50
 <211> 485
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(485)
 <223> n = a,t,c or g

<400> 50
 ccaattgacc tgaaaaactg tgccagctac aaggagggtc tgacttcagg aaagtggttt 60
 aaataacagt gcaatttcaa aaaaatttat aactttcttt tgatcatcat gtacagaggt 120
 gttttttttt tttaggcttc tcatgcatat gaatatatta agcacgaatg gactactaaa 180
 tatctgagtt tttttttttt ttttttaaag atcctaacag aacatagcgt aacaatattg 240
 gtcttccagg gtgttaactca tttcaattat gtgtagtata ccagggacag acctattttc 300
 atgtcttatt tctttaaaga gctgcttcat tgggccgggc gccatggctc cagctctgta 360
 aatcccagca ctttggggga ggnccgaggg cgggtngggt ttacttgagg gtccagggan 420
 tttcgagacc agccnggggn aaacntgggc ngaaaccccc ttcttaacct aaaaattaca 480
 aaaaa 485

<210> 51
 <211> 415
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(415)
 <223> n = a,t,c or g

<400> 51
 ttgctcattc ccaatccctt tctcattctc ctccatttca taagttcata ctaaaatgtg 60
 atatatcttc agatatacac atttactggg aaaatatata ttgttattac aagcatatgt 120
 tttatgctat agatccatat attttacttt ttaaatataa aactgtttt ctagttctac 180
 ccatgttgct ctaactacat ctttacatgt aaatatgtgt ttctaaatga tgcacaggta 240
 ttctttccac agggatggtt attatcacat tttactgggt cattccctta ggngacaaaa 300
 tacctggggg tggcccttcc aattctctta cnttcccaca aatggggcct ccattcccca 360
 ggggggcca atccatttac cttggagggg aggggggggt atatccattc tgggg 415

<210> 52
 <211> 486
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(486)
 <223> n = a,t,c or g

```

<400> 52
acaagtgggc atgagttttt attctcagtg cacagcagta ttggtttctg ttcatacagca      60
aaaagcttta ttggttccaa caaattatcc cttttaaaac tcctcttctt cttctgggtct    120
cagtggaca acacatttga atttcagatt tgcagtttat agcatttttt ttccctaaga    180
accatataaa tacatgcaaa accttgtaca tggagcttaa ataatatcaa aatgcaaata    240
tagattgggt gcactgttaa gctgaattgc aaattatggc aacacacact ggactgggggt    300
atacgttgct ttgatatac cattttgttt gtttatgtca tgcagaccac aatagtcaat    360
cntttgtttt tcntttttgt acaaaaatac cagtgcctgt tatactagtt actaaaagaa    420
gaagaaactc aaaattccna tctggcgtgc naatttngaa aaggaccacg gtngatagat    480
tggtgg                                           486

```

<210> 53
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = a,t,c or g

```

<400> 53
tgtaatcaag tttaagtaat aggggatata taatcataag catttttaggg tgggagggac      60
tattaagtaa tttaagtgg gtgggggttat ttagaatgtt agaataatat tatgtattag    120
atatcgctat aagtggacat gcgtacttac ttgtaaccct ttaccctata attgctatcc    180
ttaaagattt caaataaact cggaggggaac tgcagggaga ccaacttatt tagagcgaat    240
tgacatgga taaaaacccc agtgggagaa agttcaaagg tgattagatt aataatttaa    300
tagaggatga gtgacctctg ataaattact gctagaatga acttgtcaat gatggatggg    360
aaattttcat ggaagttata aaagtataa ataaaaaccc ttgcctttac ccnggtcag    420
tagccctcct ccctaccact ggaa                                           444

```

<210> 54
 <211> 343
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(343)
 <223> n = a,t,c or g

```

<400> 54
aaaagttgtg acantnttta tttgggactg tttgggaaga atcaatgatg tgcataaaaa      60
gccaaaaaaa agagcattaa ctccaagaca aaacgttgta tgagaatgaa aatgtaagca    120
cattaaatta attcatgagt gaacatacaa gtatgatcac agctatgcaa acaggtacat    180
gatctaacca aaataatatt aggaaggatg tgaaacaata aaagaaattt tcacctgtct    240
taatagtaag ttgacaaaac cctaaaaant aaatgggctg tataatcata ttatttnggg    300
ancctaaaac ccaaaaactg nagggctgga aggaaccngg gct                                           343

```

<210> 55
 <211> 451
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(451)
 <223> n = a,t,c or g

```

<400> 55
ctaaataact cattaagtt tattacatta aaaccatata tcacttttat attgtatttg      60
ccatttctga acaatacaaa gtagaggcaa atagtaacac ttaataaaaa tgttgcttcc      120
ccatttccttt ccctaagacc cagccctccc tcaaattatc cctcccaccc ctaacagAAC      180
tctgtcctta ataaaacact taaatacatc ataaatagta aattatgaaa aaaaaatagc      240
aagaattctt tccttcttgt aaaaaacatg gcagcaaaga caggcagcca gaaactggct      300
ggnggggtgc taatatagac agttatttgg ggtatgggct aacatattat caaggcaggg      360
gtgggataga gaaggggata gaacagggaa ttcaacaatc tggcctgagg ataccaggcc      420
ccccttcttc ccctggacaa gagtgggaag g                                     451
  
```

<210> 56
 <211> 483
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(483)
 <223> n = a,t,c or g

```

<400> 56
tanttcagga acgaggccag cctctggatc ctggggaagg ttccagtccc tggagaatac      60
ccagggcctc aaacttgaag tcaactcctcc aatgtctggg acttgccagc tcagcccggt      120
agantgaggg tgctgagagg aaacaggaaa caagactgcg aatggcgctc aggcagggag      180
cagggagtgg cgtttggctt gcaccgttcc catgtggcca gatgctgggg ccactttcct      240
tctgtctgct ggtgactgca gtgttcccc tctcctcac cacggggctc ctgtgagtct      300
ggggggcacc tctttctggc ctgtgcacct ctctctggct tataaagggt cctggcctgt      360
gccagccccc tcctttgttt gccgcctcan cgtggggacc aggtgagccg gctctcccaa      420
cgtggttgct ccgggaaaaa ctgccccaca ngccctcaag catcttcagg cancttaccg      480
att                                     483
  
```

<210> 57
 <211> 520
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(520)
 <223> n = a,t,c or g

```

<400> 57
gcaaagattc acttnattta ttnattctcc tccaacatta gcataattaa agccaaggag      60
gaggaggggg gtgaggtgaa agatgagctg gaggaccgca ataggggtag gtcccctgtg      120
gaaaaagggc cagaggccaa aggatgggag ggggtcaggc tggaaactgag gagcaggtgg      180
gggcacttct ccctctaaca ctctccctcg ttgaagctct ttgtgacggg cgagctcagg      240
ccctgatggg tgacttcgca ggcgtagact ttgtgtttct cgtagtctgc tttgctcagc      300
gtcagggtgc tgctgaggct gtagggtgct gtcccttgcg tcctgctctg tgacactctc      360
ctggggagtt acccgattgg gagggcgtaa tccaccttcc acttntactt tggcctttnt      420
ggggattaga aatttattca gcaggcacac aacagaggca ttccagattt caantgttca      480
tcagatggcc gggaagatga agacagatgg tgcagccaca                                     520
  
```

<210> 58
 <211> 568
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(568)
 <223> n = a,t,c or g

<400> 58
 acttttaaca aaagcaacaa tttttattat cttgctttat atttaatgga gtagaactat 60
 aaagattctt aaotttgaaa gcagaaatat aagttggata gtagttgcag atctttaata 120
 ccattttcaa tttcatttat gagctgctac attataaatg agatgctcta aaataataat 180
 cgcttttggt gttgttggtt tagaacaatg aaaattcctg ttaggaacac aagttgctgt 240
 ttatatattgc ttgttctctt aaatagtatg agaagaagta aggtggagct gttgggaaag 300
 cccatcgtgg acctttggag attatcttct tgggttcagtc atctccacca cagattttta 360
 agagtgtgat ttcatagtct ccagaagtat ccgatttaa ttgcngaata tagggaatag 420
 ccntaatgcn tcctggaact cnggtccgaa tggcccaaaa gggccatttc ngatcnggac 480
 cccattattc cgggtccgag taactccatc cagttcccat acccctcaag gctcgatgca 540
 gtcnttcggg cnaaaaggcc ggcgtggt 568

<210> 59
 <211> 596
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(596)
 <223> n = a,t,c or g

<400> 59
 ttttaaacag taattcttca gactttatta aaaaatgaca taaagtgcag cttattaaaa 60
 aatgtataaa aaccacataa attcagggcc cctgtgctgg gcagtgttga tatcccttag 120
 agtggaggaa ggtgagggat ggagggtgaa ctcggggact ggggagagga ccaggggtgca 180
 gttagtctct cgtgtttgag ttcaaagatg gagcgagggt ggatatggtg ggaaggggca 240
 cacgggttct cacgcaacaa cggaggaagg caggcgacag tctcttccct gaattctgag 300
 ggaaaggcgt acattgtcac gaaatctctc ctgagctcgc gctgtcctct cgtgtggcca 360
 cagcctggat tacaggctgg aaaagggtcca ggaattgggt ccgagcccag gacctggtga 420
 gggccgcagt gcaacctagc cctctggtcc ctgaagtggg tgggacgacg gcagcaacaa 480
 ctacatcctc gggctgactg gcaangcaga acgcacgcag cccaagctgg tcctgaatct 540
 gcagtgcagc agggcagccg gtgcagcggg ataatgtgga aggttaaaag ccantt 596

<210> 60
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(510)
 <223> n = a,t,c or g

<400> 60
 tttaanantt gacacaagan ttacaaatat atttaaactc cagacctggg aaatggacta 60
 tacacagcct tctaggggag aagagaaatg ccttagatgt tctgacagca ctgcaccttt 120
 ggcttggttt cagtggttgg tggaacatga ntaggancca cattgttgct tggagacatg 180
 tcattttcgc gtatgtctga catttgcttc tgagaaacaa tgcggtaaat ctctgttaaa 240
 attgtctgaa aagcagcttc tacatttgta ggagtctagg ggccgaagtt tcaatgaatg 300
 acaaaccatt cttttctgcc aaaagctctt gcttcactgt taggggaact gccctgagga 360

tgacggtagg	anccactctt	attgccccac	aaggcatgga	taaccaatgg	ttactatcag	420
gcatggatcc	tctcaggntc	tttcagccca	tcggctctac	attttccata	tgtgggggnt	480
gtttagggcc	atggnccata	accccatatt				510

<210> 61
 <211> 471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(471)
 <223> n = a,t,c or g

<400> 61						
agcatcaaaa	agttttattac	aactgttttt	aaagtcagct	atgatcttga	caaataattac	60
gggtaagtct	gtagcaagtt	tctaatttct	gagatacaaa	agacaataaa	tacagattaa	120
aattcagcct	acaaacaaga	ttctacatct	aattactggg	actgtagctt	agtttcaata	180
tttcaaacat	atgtataatt	cttaagatgc	tacaaaaact	catataataa	agttattgtt	240
cactgacaac	caactaacag	ttcttcaactg	acaatataca	agtgtgcagt	gccttcgagc	300
cttcagggtg	gccccccaag	gncctgctgg	tgccggggac	aatcagagac	agcgatgtga	360
cggcactggg	cctttctggc	aggaggactg	gtttaggagc	agctgctgaa	aacactcaac	420
aggacagaga	gctgatttcc	caactgcccc	ataaatgatc	cnatttacta	g	471

<210> 62
 <211> 220
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(220)
 <223> n = a,t,c or g

<400> 62						
naagganatt	cggccacgag	ggccagctct	gggcgtcact	tacgactgcc	agcaccacgc	60
aggaaatgcg	ggcctttccc	tgcccttccg	ggcactgagg	cctccagctc	aggcaatggc	120
tcttggtg	agctgatgcc	cctgactnct	gtgagcgtgc	acctgctgac	aggtaatggg	180
acagaggtgc	cgctctcagg	ccccattcac	ctgtccctgc			220

<210> 63
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(459)
 <223> n = a,t,c or g

<400> 63						
tcaaggtata	tntaatttta	ttattatcaa	acaaaactag	tagatataac	ttccaggnaa	60
taagttacat	aaatataaca	gaataaattc	attttcttaa	gtttcaaatt	aaagatgatt	120
aagaaataca	gctttatgta	aagtttctgc	tttttctcaa	ccacgcctaa	agaggaaaga	180
actgggcagc	aggaacactt	gctcctaggg	aaacaaatac	aacaaaatta	taattaaaaan	240
gatcttcaag	gctatcaaaa	tttgtgagag	gaaggggatg	gtaaggantg	caggtaggaa	300
nttaccnaan	tggacaaaca	aaatcctatc	cggttttcag	ggttggggnc	aaaaggtaac	360
tttcatggan	tatggnccctg	tgtttcaggc	atatgggtccc	cttggtctnt	ttggccctct	420
tttaccnccc	gngggttggc	ctnattaaac	tttttnacc			459

<210> 64
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(527)
 <223> n = a,t,c or g

<400> 64
 atgatgacaa cacatacact taaganggtg ggaacngnng gccgggdcggt gtgggtcaca 60
 cctgtaatgc cagcactttg ggcagctgag gcgagtggat cacctgaggt caggagttcg 120
 aaccagcctg gccaacatgg tgaaactgca tctctactaa aaatacacga agaaaaaaaa 180
 aacagtggga acagagttgt cacctaccta acagggctct gananagcgg gacccaaaag 240
 tggctggaag aaggtaaagg aaaaatcctg tcttgggctc aaggtcacag agtttngccc 300
 agggggangt tctgtctgag ggcagggcct ttgccaaggc nttcaagtct ccanttgcca 360
 aaggaaggaa atgccaagg ctgtcaagca tttccagatg agatcagtcg gggagaaact 420
 ttaaacccca agtcacacat ccaacaatgg aagtcgcaga gccagcacc atcttgggaa 480
 ctgagaagca cctctgcccc gccnccacac cgtgtnggaa aagtgaa 527

<210> 65
 <211> 685
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(685)
 <223> n = a,t,c or g

<400> 65
 attaaactct aaagattagg gaaaatggat atagaaaatc ttagtatagt agaaagacat 60
 ctgcctgtaa ttaaaactagt ttaagggtgg aaaaatgccc atttttgcta attatcaatg 120
 ggatatgatt ggttcagttt ttttttttcc cagagttggt gtttgccaag ctaatctgcc 180
 tggttttatt tatatcttgt tattaatgtt tcttctccaa ttctgaaata cttttgagta 240
 tggctatcta tacctgcctt ttaagtttga aactaaactca tagattgcaa atattggtta 300
 gtatttaact acatctgcct tggtcacaaa ttccgattag acctttatcc agctagtgcc 360
 aaataattga tcagatgctg aattgagaat aagaatttga ggtctacatt cttgggttgtt 420
 aatttagagc gtttggttaa agtatgtcct cagctgactc cagtataatc tcctctgctc 480
 attaaactga ttccaggaga ttggattgct gtgactagat acagatggag caaatgtccc 540
 tacagagaaa tagaggtgag cngctaaagg agaaatgcca gcggacaagt cagtgtcgga 600
 attnccgtga catcactggg catagattgg agaagttttc cttggtaggc cttttcncc 660
 tttatcagca aatcccgggg taagg 685

<210> 66
 <211> 383
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = a,t,c or g

<400> 66
 tagacctttg ctccagtatg tgcaggacat gggccaagaa gacatgttgc ttccccttgc 60
 atggaggata gtgaatgata cctacagaac ggatctttgc ctactgtatc ctcccttcat 120
 gatagcttta nttgcctaca tgtagcctgt gttgtacagc agaaagatgc caggcaatgg 180
 tttgctgagc tttctgtgga tatggaaaag attttggaaa taatcagggt tattttaaaa 240
 ctatatgagc agtggagaa tttcgatgag agaaaagaga tggcaaccat tcttagtaag 300

atgccaanac caaaaccacc tccaaacagt gaaggagagc aggggtccaaa tggaagtcag 360
aactctagct acagccaatc ttn 383

<210> 67
<211> 554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(554)
<223> n = a,t,c or g

<400> 67
tatatcagcc tgagtctcct gtgccccatc ccaggcttca cctgaatgg ttccatgcct 60
gaggggtggag actaagccct gtcgagacac ttgccttctt caccagcta atctgtaggg 120
ctggacctat gtcctaagga cacactaatc gaactatgaa ctacaaagct tctatcccag 180
gaggtggcta tggccacat ctctgctggc ctggatctcc ccactctagg ggtcaggctc 240
cattaggatt tgcccccttc catctcttcc taccacaacca ctcaaattaa tctttcttta 300
cctgagacca gttgggagca ctggagtga ggnnaggaga ggggaagggc cagtctgggc 360
tgccgggttc tagtctcctt tgcactgagg gccacactat taccatgaga aagaaggcct 420
gtgggagcct gcaaaactcac tgctcaagaa gacatggaga ctctggccc tggttgtgta 480
tagatgcaag atatttatat atatttttgg gttgtcaata ttaaatacag acactaagtt 540
atagtaaaaa aaaa 554

<210> 68
<211> 362
<212> DNA
<213> Homo sapiens

<400> 68
tctgcatcag taattttaat aaagaaaagc atgctctgag agaaagctcg ctcttggtc 60
tgcagtcctt taaacaaagc agtgcagttc ttagccaagg gtaagtactg caactgtcga 120
gagcatcttg tcttccacac agttgggtga ctctccgttt tgacacaaag ataagccttg 180
cccttgtttc cttttgggag ggatatatcc actgagatga gaggccaaac tccgtttttc 240
acgagatttt ttgacttttg agcttcattt tcttcttgtc aggatcatgt acaacagcat 300
gcctaagtga gactttgttt catttgcaaa tgtttttgcc acagccagca tgttcacaca 360
ca 362

<210> 69
<211> 203
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(203)
<223> n = a,t,c or g

<400> 69
tcagcagcac ccactattac ttgctgcccg agcgaccatc ctacctngng cgctaccagc 60
tntcnctgcg tnaggccag agccccgagg agcctacccc cctgcctgtg cctctgctgc 120
tgcccnacc cagnacccca gncnngcng ccncacggc caccgtgcgg ccgatgccn 180
aggntgcctt ggnaccccaa ggn 203

<210> 70
<211> 468
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(468)
 <223> n = a,t,c or g

<400> 70
 ggaaggatga acaagttgag aaggaaaaca cttacactag ttacttggac aagttcttta 60
 gcaggaaaga agatactgaa atgctagaaa cttgagccag tagaggatgg gaagcttggg 120
 gagagaggac atgaggaagg atttctgaac aacagtgggg agttcctctt taacaagcag 180
 ctcgagtcca taggcacccc acagtttcac agtccagttg ggtcaccact taagtcaata 240
 caggccacat taacaccttc tgctatgaaa tcttcccctc aaattcctca tcaaacatac 300
 agcagcattc tgaacatctc gaactaaaac actcagcaga catttatctt tgtattcttc 360
 atgaaatgtg ttttgtcttt ttttattact agtgtttaag tcatttttta cttgnatcag 420
 atgnggtcat ttngtaaggg ntttatggag gtcttgtttt tttaaaaa 468

<210> 71
 <211> 464
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(464)
 <223> n = a,t,c or g

<400> 71
 tttttttttt atttagagaa tactttatta gtttctgtaa tcaaaccat gtagataaga 60
 ccttacatat ttaatacagt gcgttacccc tgtacaaatg gaaaaaaaaa taagtttaac 120
 gtttctagac caatatggct gttaatttct gtacaatgcc aactcaacac agtaaaccgg 180
 gatacttttt ccaaagttga cagcacagct aaagtttcca aaaattcaaa ttatatatat 240
 atatcgtata tatatatata tatntnnnta ancncgacca atagcagtat gttatgcac 300
 aatagcagca acagcttttc caggttctgc agtcatctga ataaaattat agagacatcc 360
 agcacactcc atttaaaaaa aaggggggaa aaaggtaaaa aacaaaaccc cagaaaattg 420
 caaagttctg ttaccgttgt ggtacctggg caccgttttt taaa 464

<210> 72
 <211> 554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(554)
 <223> n = a,t,c or g

<400> 72
 ttctctttac tcaccatttt aatactgccg ccaactataa cagattaaaa atgtacacat 60
 gacaaagtgg aaaaaagtcc caaaatgcaa cagtttcagc aaaagaacat actgggtaag 120
 gattactaca gttaacatcg gtacagtaaa aacgatggca aacagggatt tggcaccaca 180
 ttacaaaagt aaaagcatgc actgttaata cacttttagat gtttctcaac agaaaaggcc 240
 atgaagatgg aaaacaagag gcaccatgta caaaactccc tataactgag acaacaagc 300
 aagaatcaaa gtggtcaatt tagtaaatat gtagcagcaa agtcactggg tctgtttgga 360
 atttagcaat tttgcatttc tgattggcag ctgccctggg gtgtgtctgt atccaagaag 420
 ctgactttta tcatactaca tcagcagtaa tttgggtaaa tctgcacaaa caagggttaa 480
 nccctcnagc ccttaagcct taaagggaac gggnggaac taggaatcct nattgccgna 540
 ccttttcena tggt 554

<210> 73
 <211> 398
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(398)
 <223> n = a,t,c or g

<400> 73
 gatcaatacc acagttttatt tgtaaaccatg ttatatgtgt caataatcaa attgacaaca 60
 ctttatagat ttcattgtat aatattaaca tcctaacaga aaacgatcca ctgtactcag 120
 ttacagtttg gtatttttaa atccttaaat acaaattgta ttgaaacac tgaacacaaa 180
 aaagaaacat gaatggcaga gaaaactgaa aacaacaagt aaaagaaacc aatattccgc 240
 tcccctgaaa aaaaaacata aaatcatctg attacataat ttaaaaaaga aacaaaggaa 300
 atcagatgac atttttttnga tataaagttg catttcttca aatccatttt agaggtgaaa 360
 ttgtatcaat attaaattct atgtcntttt tgatattt 398

<210> 74
 <211> 477
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(477)
 <223> n = a,t,c or g

<400> 74
 tctcatttaa ctttttttaaat cgggtctcaa aattctgtga caaatttttg gtcaagttgt 60
 ttccattaaa aagtactgat tttaaaaact aataacttaa aactgccaca cgcaaaaaag 120
 aaaaccaaag tgggtccaca aacattctcc ttctcttctg aagggttttac gatgcattgt 180
 tatcattaac cagtctttta ctactaaact taaatggcca attgaaacaa acagttctga 240
 gaccgttctt ccaccactga ttaagagtgg ggtggcaggt attagggata atattcattt 300
 agccttctga gctttctggg cagacttggg gaccttgcca gctccagcag ccttcttgtc 360
 cactgctttg atgacacca ccgcaactgg tctgtctcat atcacgaaca gcaaagcgac 420
 ccaaaggtgg gatagtctga gaagctctca anacacatgg ggcntgcagg aaaccat 477

<210> 75
 <211> 382
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(382)
 <223> n = a,t,c or g

<400> 75
 gcataatccc tgtaacnttt tgcaatctat tgatacatgt aagactctca gcttaaaaaa 60
 aatcaacatg gaaatctcca actatttaga actaataaag tatgagtgc ctgagagatt 120
 cagccaaagt aacattgaaa ggaaaattta tagccttagc tatgtgcaact acaaaattga 180
 aaaagggctg ggcatggtgg ctcatgcctg taatcccagc actttgagag gctgaagcgg 240
 gcagatcaca aggtcaggag atcgagaccc tcctgggcta acacagtga atcccgtctc 300
 tacttaaaac tacaaaaaaa ttagccaggg catnggtggg cgggcacctg ttagttccca 360
 gcttacttcg gggaggcttg ag 382

<210> 76
 <211> 535
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(535)
 <223> n = a,t,c or g

<400> 76
 tttttttttt tttttttttt tccatagaaa ataggattta ttttcacatt taagggttaan 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntntngntt gaattttcttt 120
 aacacacaga aaaatcaaaag cctaccaggn aatgcttccc tccggagcac aggagcttac 180
 aggccacttc tgtttagcaac acaggaattc acattgtcta ggcacagctc aagtggaggtt 240
 tgttcccagg ttcaactgct cctaccccca tgggccctcc tcaaaaacga cagcagcaaa 300
 ccaacaggct tcacagtaac caggaggaaa gatctcagcg ggggaacctt cacaaaagcc 360
 ctgagttgtg tttcaaaagc caagctctgg ggtctgtggg cctgtgtcac caacttcagg 420
 tcacaccaca gcatggggaa gttagtnttg cagtttcant tctagtcant cttgttaatt 480
 aaatttttcc cattaggagg gacattttta aacagggttt agagtccttt gcaaa 535

<210> 77
 <211> 468
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(468)
 <223> n = a,t,c or g

<400> 77
 ntggccaatg cgtctcgggc gcgctcagan cacgttcac aacctgcgag aggtcagcac 60
 ccgcttcgcg ctgccaccgc gggagtatgt ggtggtgccc tccaccttcg agcccaacaa 120
 ggaggcgacg ttcgtgctgc gcttcttctc agagaagagt gctgggactg tggagctgga 180
 tgaccagatc caggccaatc tcccgatga gcaagtgtc tcagaagagg agattnacga 240
 gaacttcaag gccctcttca ggcagctggc aggggaggac atgggagatc agcgtgaagg 300
 agttgcgga c aatccttcaa taggattcat cagcaaacac aaagaccttg cggaccaagg 360
 gctttcagct taggagttcg tgccgcagct tggttgaacn ttatgggttc gtgatgggca 420
 ttnggtaagt tnggcttggt gganttcaac atnctgttgg aaccgttt 468

<210> 78
 <211> 412
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(412)
 <223> n = a,t,c or g

<400> 78
 aaattacaaa aatataaata aaaatagtga aatataaata ttcagtgtac aggagtggtc 60
 ctcacccac ccagtgagga ttggatgaac taggctaaaa ggaagggata actggccaag 120
 aaagggacat ctatgtgaaa gtgaaactga gacagtgtc gtcacaggtc atgctgcaga 180
 ataatacatt cccagggnac tgtcacgtgg ggggacccaa gagggcccg gagtgaccta 240
 taacctctcc agaaagacca ctctgtgtgg gcatcacagt ccacacagtt ttaaggggaa 300
 tatttaggnc tttaaccatt caggncacca gntttttact ttacacttta caatttacag 360
 gccccacaca caaggtttgg cnaactttcc acaaactttt ttttttcccc cg 412

<210> 79
 <211> 394
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(394)
 <223> n = a,t,c or g

<400> 79
 tcgaggcagt attgacaggg aggatggaag tcttcagggt ccgattggaa accaacatat 60
 atatcagcct gtgggtaaac cagatcctgc agctccacca aagaaaccgc ctgcgcctgg 120
 agctcccggg catctgggaa gccttgccag cctcagcagc cctgctgaca gctacaacga 180
 ggggtgtcaag ccatggaggc ttcagcccag gaaatcagcc ccnctcctac tgccaacctg 240
 gaccggtcga atgataaggt gtacgagaat gtgacgggccc tgggtgaaaag ctgtcatcga 300
 gatgtccagt aaaatccagc cagccccacc agaggagtat gtnccctatgg gtgaagggaa 360
 gttggccttg gccttgagga cattatcttg gccaa 394

<210> 80
 <211> 157
 <212> DNA
 <213> Homo sapiens

<400> 80
 tgcccagcac aaaggcctgg tgcaagagtg ggggtgcccc gtggctgggt cctggccgcg 60
 ggtggaccct cccacgcgg gcggtctcgg agcttccctgc cgcgcggtgt gtgtgtgtgt 120
 gtgtgtgtgt gtgtgtgtgt gtgcgcgcgc cccgctt 157

<210> 81
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = a,t,c or g

<400> 81
 tgcaaaacag aagtacagat ttattgaaac aaaagtacac tccacagagt gggagttagg 60
 ctcgagcaag cagcaagagc cctggttaca ganttttctg gggtttaaata atgctctaga 120
 ggtttcccat tgggtacttg gttacaccct atgtaaatga aacctgcccc acgaccagtc 180
 agattggttg tgggagggga ccaatcagag gtactttcca tttttcatct gtgaggcagt 240
 ggaaaggtgg ggttgcaaaag ggagtagctt ctgatccttt ccttacttgg ggcgtgggag 300
 aggtgggggt tttcgctttg attcagttct aggggaagggc agcgcaantt gggccttagg 360
 gttcttggtc tncctgcctc ctgcctcagc tggggcacct ttntaacagg gaggaaggag 420
 agcctagcag ccantcagtt aaac 444

<210> 82
 <211> 448
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(448)
 <223> n = a,t,c or g

<400> 82
 attcaacaaa catttattaa acattcatat gccaaaaact atgctatgga gatgcaaaaa 60
 ataaaaaggt tccttttctt gcccttaagg agctcacatt ctagtaaaga cttttgaaaa 120
 ataaaaacaat acagtacgat ttaagtgaca tacaatagag gtaggttgta attacagtgg 180
 tgacacgaaa gggaagttag atgactncc ttgagtggag caaaggagggt ttcacagagg 240
 aaatgcttat gtcaggcctg caagatgcat aggaattttc caagtgggga aggatgacta 300
 gcacacttga tgcaaagagt acagcattta ccaaggcggg aggcctggcc aaatgtggct 360

tctgaagaag tgtaagtctg tttcaccaga acattcggtg gangaaacac atcagaagac 420
 cttgtacacc caacagagga gttttggc 448

<210> 83
 <211> 215
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(215)
 <223> n = a,t,c or g

<400> 83
 gtgtcttatt ctccactga cagaaagatt ttcctgcttt caggaaacaa gctttatgtg 60
 gcccttttct ggtcccctng cttagactac agttctgtgt ggatttgtct gattgcttca 120
 gacatgtaat gttgtttttc atccttgggc agcttacatc agttgttttg tttgattaga 180
 aaaaggaagc agacacacac acacacacac acaca 215

<210> 84
 <211> 487
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(487)
 <223> n = a,t,c or g

<400> 84
 taacaatgat tatcttttga atacgcatac gcaagggatt ggttgtctga agaatgccac 60
 tatagtagtt atctattgtg tgccaatctc attgctaggc attggggatg caaagataaa 120
 ccatctttat tgtgtcttgg gtagcagaag aaaatatgtg taaaatcaat ttataatttg 180
 taaactgcc aacatataata agctatatct gctgaatgat cattgattac ctcttatact 240
 tagagataac aactgggggc acaaacattt attatcatta ttgaacctac aacagagatc 300
 tatgtgtaga ttacaaaagc ctacagttct atacagatag gaatgancta ttggcttact 360
 gaatggtgat tactttctgt gcagggtccg gaactacatg cccctaggat ataaaaatgg 420
 atgttaanca ttatngagtg ctacacagaag gaaatgcagt antatagggtg tgagatccag 480
 accaaaa 487

<210> 85
 <211> 3645
 <212> DNA
 <213> Homo sapiens

<400> 85
 gaattcgggc gccgcccggc cggcagtcag gcagcgtcgc cgccgtggta gcagcctcag 60
 ccgtttctgg agtctcgggc ccacagtcac cgccgcttac ctgcgcctcc tcgagcctcc 120
 ggagtccccg tccgcccgca caggccggtt cgccgtctgc gtctccccc aagcgcctcg 180
 cctgccgccc cgctcgtccc tccgggcccga catgagtggg gaccacctcc acaacgattc 240
 ccagatcgaa gcggtatttc gattgaatga ttctcataaa cacaaagata aacacaaaga 300
 tcgagaacac cggcacaaag aacacaagaa ggagaaggac cgggaaaagt ccaagcatag 360
 caacagtga cataaagatt ctgaaaagaa acacaaagag aaggagaaga ccaaacacaa 420
 agatggaagc tcagaaaagc ataaagacaa acataaagac agagacaagg aaaaacgaaa 480
 agaggaaaag gttcgagcct ctggggatgc aaaaataaag aaggagaagg aaatggctt 540
 ctctagtcca ccacaaatta aagatgaacc tgaagatgat ggctattttg ttcctcctaa 600
 agaggatata aagccattaa agagacctcg agatgaggat gatgttgatt ataaacctaa 660
 gaaaattaaa acagaagata ccaagaagga gaagaaaaga aaactagaag aagaagagga 720
 tggtaaattg aaaaaaccca agaataaaga taaagataaa aaagtctcctg agccagataa 780
 caagaaaaag aagccgaaga aagaagagga acagaagtgg aaatggtggg aagaagagcg 840
 ctatcctgaa ggcatacaagt ggaaattcct agaacataaa ggtccagtat ttgccccacc 900

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atatgagcct cttccagaga atgtcaagtt ttattatgat ggtaaagtca tgaagctgag 960
ccccaaagca gaggaagtag ctacgttctt tgcaaaaatg ctcgaccatg aatatactac 1020
caaggaaata tttaggaaaa atttctttta agactggaga aaggaaatga ctaatgaaga 1080
gaagaatatt atcaccaacc taagcaaatg tgattttacc cagatgagcc agtatttcaa 1140
agcccagacg gaagctcgga aacagatgag caaggaagag aaactgaaaa tcaaagagga 1200
gaatgaaaaa ttactgaaag aatatggatt ctgtattatg gataaccaca aagagaggat 1260
tgctaacttc aagatagagc ctcttgact tttccgtggc cgcggaacc accccaagat 1320
gggcatgctg aagagacgaa tcatgcccga ggatataatc atcaactgta gcaaagatgc 1380
caaggttcct tctcctcctc caggacataa gtggaaagaa gtccggcatg ataacaaggt 1440
tacttggtg gtttcctgga cagagaacat ccaaggttcc attaaataca tcatgcttaa 1500
ccctagttca cgaatcaagg gtgagaagga ctggcagaaa tacgagactg ctcgccggct 1560
gaaaaaatgt gtggacaaga tccggaacca gtatcgagaa gactggaagt ccaaagagat 1620
gaaagtcggg cagagagctg tagccctgta cttcatcgac aagcttgctc tgagagcagg 1680
caatgaaaag gaggaaggag aaacagcggg cactgtgggc tgctgctcac ttcgtgtgga 1740
gcacatcaat ctacacccag agttggatgg tcaggaatat gtggtagagt ttgacttctt 1800
cggaaggac tccatcagat actataacaa ggtccctgtt gagaaacgag tttttaagaa 1860
cctacaacta tttatggaga acaagcagcc cgaggatgat ctttttgata gactcaatac 1920
tggtattctg aataagcatc ttcaggatct catggagggc ttgacagcca aggtattccg 1980
tacgtacaat gcctccatca cgctacagca gcagctaaaa gaactgacag ccccgatga 2040
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taaccatcag agggcaccac caaaaacttt tgagaagtct atgatgaact tgcaaactaa 2160
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tгатgccaag gtcатgaaгg atgcaaaгac gaagaaggta gtagagtcaa agaagaaggc 2280
tgttcagaga ctggaggaaс agttgatgaa gotggaagtt caagccacag accgagagga 2340
aaataaacag attgccttgg gaacctccaa actcaattat ctggacccta ggatcacagt 2400
ggcttggtgc aagaagtggg gtgtcccaat tgagaagatt tacaacaaaa cccagcggga 2460
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cttgccctcg tgcttggggg agagaggcag caagtcttaa caaaccaaca tctttgcgaa 2640
aagataaacc tggagatatt ataaggгga gctgagccag ttgtcctatg gacaacttat 2700
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cactgaaatg tttggattct cttagctact gtatgcaaag tccgattata ttggtgcgtt 2880
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gttagagtcg tcactctcta ttgtcatggg gatcaatttt cattaaactt gaagcagtcg 3060
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<210> 86
<211> 332
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(332)
<223> n = a,t,c or g

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```

<400> 86
tttttttttg cttttttatac cacttttatcc caacctgagc acctcaatat aaaactaaac 60
actgggtgaac cgtttttcta attctgcatt atcataaatg tacaagttct cctagcagtc 120
caacacttaa atagattaaa tcatctctga cacatggtag ctttcatata atgaaaatac 180

```



```

ctaaantaat tagtgcaata tactgaaactg atcaaaaataa aatgaacttt gggaaaggga      240
aggctgcaag gattgttact aacatattgg caatacttta tgttaciaat tacgggggtac      300
attgtttatt atgggttcta ggccatgggg gg                                     332

```

```

<210> 87
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(401)
<223> n = a,t,c or g

```

```

<400> 87
tttccatatt cactgctaaa atatttttatt ttaaaatgta ccacagtga tggatgtatc      60
catactgggt cttataaatg tacacatata catccatata ttgacaaaag tatatatatg      120
aactgggtta agacctatcc aaaagaggaa atatttctag aaagttcatg tgtttatact      180
tcatttgaca attaaaactt atttgaactg atgaagtttt agttgcttag caatgactaa      240
taataccaat gcctgtcaat aatgacaact aaattgagaa ctataaattt cactgctgtg      300
ccttgggtca aaattttcaa tgatggaacc taaataagta acagttattc ctataatggg      360
gtatatattc agaaggaata aatcctgcac tattncaaa c                               401

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```

<210> 88
<211> 427
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(427)
<223> n = a,t,c or g

```

```

<400> 88
cttttggttac cagttaaata taagaacacc ttttacctct ataacaggaa ggaagctgct      60
gtgaccagat acctttgaga agctttctga gcatgtgaaa gagaaaacag aaagtatttt      120
ctgcaattgg taaacttgct gttttcagaa tgtcaacagg caaacaacaa cgtgacacgt      180
gtaccttggtg aaaacatgc caccctggcc ccaaaactcct acagcagtgg ttgtcctggg      240
gccgactgcc tgcagnactg cagangtgtc tgtgtgtattc taatcccat cccaccactc      300
tgagaagctt gtctgactaa gtctgaggaa aagaatggct atgatgtgga tcacattttc      360
aatgattttt aaattgtact taaaaaaaaa gttttctagt aattgagtat ataaaaagtc      420
cccngag                                           427

```

```

<210> 89
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = a,t,c or g

```

```

<400> 89
acaaattttg cattttccac atgaaaaaaaa tcacagtagg cacatactag aagcaaaata      60
cgtcagacaa aaatatccta aagatgtttc tgttatcaaa cttttacaat ttttccaaga      120
cgtttttgag gtttgggaaa aagtctgggg catttttggc aaaaaacaaa cacactctat      180
ccatgtgagt tttgactatt gttctttctc accaaaantg tccatanttt tctacaaatt      240
ccatgaagtt ttaaatacant catgtttgat ttacattttac caggnatgat ttgcccacat      300
ccatnaaatt                                           310

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<210> 90
 <211> 410
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(410)
 <223> n = a,t,c or g

<400> 90
 cctcgcgana acgctntaga aataaaaaact tttgtggcgg tagaggcact gctaactgat 60
 tcaaaaatta attaggtttt gcctgtgggt gtgaggaatg cagagaatta atgcttttagc 120
 tttttctgcag ttttgggtgtc ggggagaggt tccaagcaaa ctctattaaa tggggatttt 180
 ttttttcccc ataaccacct gaatgtgatt tgtgggctta tgtgttctga tttgaacttc 240
 atatagcaag gttgtggctt ttggcagatg cagtatgttc tgagcgcggc tcctagagtc 300
 tacaatttgg gagtccaggg aaggggtggc tgtgggagac aagtggagtt tttgtacctc 360
 cgtaagccac ccttttttca ggggccagtt ccattgtgta gtantcaggg 410

<210> 91
 <211> 392
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = a,t,c or g

<400> 91
 taagaaaaaa gcaacaagaa aataattcag agttttatata aaacatcttt acattatttt 60
 ttttccaaaa agactagtat ttacacaaat ggcaacagaa acaaaaaaaa aaacccttcc 120
 gactgccacc tgggaagggg ctggctgttc tgctccctct ccacctggg cactgggggtg 180
 ggcagctggc cagggaggca gtgtgggagg tgggatgggt ntgagggggc agtccttcc 240
 atgggctgct ctggggagtg cctgcaaggg cacttcaagt gggcagtcct ttagcagccg 300
 tgcttggaac gggactnagg gtcaaagtgc acagcggggc ttggcccagc cccaggggag 360
 cctcttttct ctttcagggg gnccagccc aa 392

<210> 92
 <211> 468
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(468)
 <223> n = a,t,c or g

<400> 92
 aagacttcaa agtaaaaaaa aaaaaaaaag gtacagaaat agattacatt atgatgacca 60
 cagtagtatt ctacatgaca aaaataaaaa cagatttaag taaatgtacc ggcactgaac 120
 aagcatttac ttaacatcca atccaggctg catatgcaca aaatgatctg accacatgct 180
 tatgcaaaat aaagtttttc ttagaaagcc aaaattccaa ccattctgac tgtccgctgc 240
 ctattcccct gttgagtatt ttgagcgaac ttctatagaa tataagaaca attggcatgg 300
 cacttaaaga ctgcaaaaaa cagaacacaa ttaaaaacat ttataatgca tttctgtata 360
 aaattacaca ccgtaaatct tattagttaa aaaaagattt aaaaacaaaa gaccaccctg 420
 gaataatggg taanacctca tcntaggaaa atgctcatca ttttggtg 468

<210> 93
 <211> 620
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(620)
 <223> n = a,t,c or g

<400> 93
 tttttttttt tttttttttt catttttaaat tataattttt attaaaataa aatatacata 60
 aaacaacatt tttatcaaaa tcctataaat aattaaaaaa attcaccatt ttaaccatct 120
 cttaaaaatct acaatttaac aacattttaat acattcataa catacaacca tcactttctat 180
 atactttcaa aaccttcatc acaccaaaaa aaaacccccc acccattcaa caccatcccc 240
 ccaccctcaa tccccaaaca tcactaccct acttcccact caaatcacca acactttaaa 300
 aatatactat attataaaac ttttttccca atatacattt tatcttttat cactcctaaa 360
 ttttaaatca tatttaaaaa aatttttacc actccccaat aataaaaaaa ttcacttttt 420
 cctaatactt ttaaaccctat ttaaaattta acttaatatata taattaanat acaatttcatt 480
 ttcanttttc ntcccaataa ttaacattta ccccttatat tancaaatcc ctcccttccct 540
 caccaatatc attactncct tataactaaa tatctaaacc taaaantatc ccaaatttct 600
 aancctaanc tactactcct 620

<210> 94
 <211> 644
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(644)
 <223> n = a,t,c or g

<400> 94
 aatttcagag acaggatccc actttgttgc tcacgctggt ctcaaactcc tggctttaag 60
 caatcctcct gacttggcat ccccatgtgc tgggattaca ggcacctgt aatctgccag 120
 tttgtcccca tggccatgtg agatgacagc tgctatgacc ctcaacttag aggtgcagaa 180
 aatgaggctc agagaggctc aatcacctgc ctgtggtcac ccagcaggcc caggctccacc 240
 cttaggctga atcctccaca acaacacttc cttcagtcta agtaggctga atcttgtgtt 300
 ttgtttgttt gtttgtttgt ttctttgttt gtttgagaca gagtctgtgt ctgtcaccca 360
 ggctggagtg cagtggcaaa tcttgggctc actgcaacat ccacctcctg ggttcaagcg 420
 attctcctgc ctcagcctcc caagtagcta gaattacagg ggtgcancac catccccggc 480
 tatgnaattc ctctgaagc ctgcaaaggg cactatctgc tctgtagaaa gtgntttgta 540
 acgagtcaaa gctgttgagc ataaaagact ttggggcccta gccacgacat gatantgctg 600
 naaaagggtt ggggatncag gctttatggc aaatcggcga tcgg 644

<210> 95
 <211> 479
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(479)
 <223> n = a,t,c or g

<400> 95
 gcgaccgcgg cgggancccg acgctcgccc tacggtgcgg cctacgagtc tcgacgtgca 60
 agctgcgagc ganggccaga aacgggcaca gcgggcccgt gagctgcccc gagactaccc 120
 caccaaagtc ttcttggtgg cgaccacca agcaccacga cgccggcacc ctgacaggac 180
 cataacagtg acagcggcgc tggggattgg ctctttgtaa tgtgctctcc cattggctcc 240

cggagaagat	tctgattggg	tcttcctggt	gttgattccg	gaagtttacc	caggacagga	300
agttcacttg	taattccgtg	gaaatctcag	gcctcttttt	cctccttggg	tgcttttggt	360
cctttaagtg	cgatcttttc	ctgggcgttt	ttgttttacc	taattacctc	cgtttttggt	420
aantgggtgg	gttaaagan	tttagaacta	ggtagatttt	atgggtcagc	cgccgtaaa	479

<210> 96
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(413)
 <223> n = a,t,c or g

<400> 96						
aaatgatgca	attattcata	ccagtttatt	gtaggtattg	tgtttcaaaa	aatttatagc	60
ataaataact	tttcatgtca	taaaataact	tagtagaatt	tataataaaa	ctttgagaat	120
ttaatatctc	atcaaaatac	aataaaatat	ggttttcaaa	tatgattaac	cctttcggct	180
tttcttttac	ttgagggcat	ataaaccaaa	aatacccaaa	ctatggctgc	acacttaaac	240
tttaacatat	ttggtttatt	ttaatgtaac	tcaaccattc	taaattaata	catagttttc	300
cttcctgcat	ggttccttgt	aatttttggt	ccttttgact	tatttttctg	tttcaacaca	360
gcttccttct	tcattttcac	ctcnttccat	ctgcaaagtc	atctatctcc	ggg	413

<210> 97
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(411)
 <223> n = a,t,c or g

<400> 97						
tttttttttt	ttttttccat	aggaaaaaaa	tatttttattt	ttttaagaac	aaattcagtt	60
tgaaacagat	gtggaatgtg	acttcacgga	tttcattttc	tggggctaac	tgcaatgtga	120
aactaaagca	gatttaaaac	ctatgacagg	ctattaaant	aaaacaaaaga	aagaaaaaan	180
tattttataac	tcaggcataa	tactgtgtta	cttacaantt	ggacaacgaa	atttttaata	240
aatattcatg	gtacatannt	acggcacaaa	tatgcagcan	tttgggcaac	ctnttataacc	300
nttttttctc	cnttacagtg	caaaggggaa	tgacactgcc	gttaaacaag	ctgtagctaa	360
ntacattgcc	aaaattcagn	ttttatacaa	aacanccttg	cttgggactt	t	411

<210> 98
 <211> 324
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(324)
 <223> n = a,t,c or g

<400> 98						
gnnccgggct	cctgtccaga	ccctgaccct	ccctcccaag	gctcaaccgt	cccccaacaa	60
ccgccagcct	tgtactgatg	tcggctgcga	ganctgtgct	taagtaagaa	tcaggcctta	120
ttggagacat	tcaagcaaa	ggtggacaac	tactttttcca	gaacagaaa	gaaactcatg	180
catcagaaaa	ggtgactaat	aaaggtagca	gaagaatatg	gctgcacaaa	taccagaatc	240
tgatcagata	aaacagttta	aggaattttc	ggggacctac	aataaactta	cagagacctg	300
cttttttgac	tgtgttaaag	actt				324

<210> 99
 <211> 424
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(424)
 <223> n = a,t,c or g

```

<400> 99
aataaagaca agtgttcaga tttattttgga aattcacagt ttctaattggc actacagctc      60
cgtagttaca tattgaaaat tctcttccca caacacacag atcacataat ttctcactgt      120
atctctgtctc tcatctggac ctcttttcaa ggggcttcta taaaatcagg ccctcttgct      180
ctgaatagct aattgtgcag acaggaaaaga aattttaaata ttctaaaaca cgctgttaac      240
ctaaagcagc aacttaaaca aacaaaaaag gcgttaaata agtcacatta caaacaatac      300
ccaagaaagg tattaggcaa gtttaaaaac agttatcact actaanagtg ctcaataagt      360
tataacttaa acatcacaac aataaatggt caattctctc cctttcaaaa agaaacatgt      420
tccn                                         424
  
```

<210> 100
 <211> 387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(387)
 <223> n = a,t,c or g

```

<400> 100
aagagacagg gtcttgctat gttggccaag ttggtcttga accattggcc tcaagcaatt      60
ctcctgcctc agcctcccaa agggctagga ttacagggtg gagccactgc gncctggccag      120
taatgcaatc tttaaaaccg atcttgcaga gtattaataa catgaggaaac tcttcacaaa      180
ggctacaaaa caatatataa aagcaaagaa attatatataa ggccatataa aattttttaa      240
gagganaact ataaggcaca caggaaaggc gccnnggggga ttgatggata tggcacataa      300
tatttttttc tgggggtagg gtgacnatta ggggggtgcc nccttttttt ttttattggg      360
ggccaaattg tagggttgat taaatac                                         387
  
```

<210> 101
 <211> 420
 <212> DNA
 <213> Homo sapiens

```

<400> 101
gattgtctcc ctattctttg attcaaaagc caattacaga aactatgaac ttgacctaat      60
tctggttttt gacaattatg agacagaaat aaagaaatgc aagcagttct tttctttgca      120
cactgaccat tttttaatta catcatcctc tatgatgatg gtgctttcac aactgcagct      180
ctcctgtatg tcaaaatcat tctggtttcc aggtaaatgg acaaaggaga tttgccttca      240
gtgtctagaa ggcaatttac ttttcagctg ccttaattac ctatagttaa aaggaaagga      300
atgccacata taggggtcct ttaaaccatc aaaatgggga ggttgcctcc aagggcacca      360
ttcccaaaca tttggtttca agtcccggag gctttcctat atgttacagt tatggtcatt      420
  
```

<210> 102
 <211> 565
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(565)
 <223> n = a,t,c or g

<400> 102
 tttttttttt cattgttggt gaacgtttat tgagctctaa caatgggaga ggtgccacac 60
 aaaacattag acacangtac ctgcccagtg gnttacaatc taatctaagg acatgaatct 120
 tttttttttt ttaaagacag agtctcactc tgtctaaaaa ataataataa taaaaagcat 180
 ttgaaatta gtcgcggtca atgcaattct actctttgga atccgttttag ctaaatgaat 240
 gtagtgctct tgttgaatgg aaacaggtga taggaaatgc ctaccatttg actcaatatg 300
 gataatcaag agttgctcag gatgcttggn tctgggggta gattctcatt catcattgcc 360
 ctggcacatg tcanttacta cataaaaagg caaatgcaat gtcaaatcca aagcctcagg 420
 agggaaagtg agttcagttc ccaagagaaac agcantagct caacaatgta aaacttcatt 480
 tagggtnat cggcattaan ttagtgctgt cgaaacanta cgttgagggn ttacagtacc 540
 accgggagtt ccctctcatg tccat 565

<210> 103
 <211> 539
 <212> DNA
 <213> Homo sapiens

<400> 103
 gttaatgcac attggcagga aaatgggaac gaataaaatt gcttgctgtc cttctccctt 60
 tattctccac ttcttggttt ttctaaatgt ggggtcaaaa cttccatgag ggtaagaagt 120
 tcagttttct gcctttcccc ttcatctccc tatcacacat gtatactact ccttaacact 180
 tagagaagat aaaaaagaa taaattgtgg agaggagca tatgtgaaag taaaagattc 240
 ccagacataa tacgggagtt aatggagaaa gaaaatctct aaggaagact agaaataatt 300
 gggttaggga ttctcgagaa gtaaattaaa ttccccaaat atgggtattct ctgagaagat 360
 aattttgaag gaggcaatgg cgtggatatc cagtggaaac agcagtcctc tggagcctgg 420
 gctgttgact tccaagggcc cagtttcttc tgggaggggc cagaaaatta cttttgaagg 480
 agggggaatg gggcctttat ttagggttat tagtaccctc tttattttta ggaattaat 539

<210> 104
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(334)
 <223> n = a,t,c or g

<400> 104
 ttttttttgt tagtattcaa cactttaata tttatggtgt atcacataaa aaacaaagtc 60
 atatactttt gcattaatca aaaaatagca aatccatata atggcaaat caggaaaaaa 120
 attctagtat ttccacaaaa tacataatgt cttacagatg attatgtgaa ctttaaattg 180
 ctgcagccct acagagcttt tgttgccaat tgaaaaacaa aaaantccca acacaggatg 240
 ttcaaaaagc ctanttcata aaangacatt ttattccatg tttaatatag tgttttttag 300
 gatggttaaca taagtcatgc aacagctctg taaa 334

<210> 105
 <211> 392
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = a,t,c or g

<400> 105
gcacaaattc caggaatgtt tatttgataa aattgagaaa tgaaagattt aaatgtttta 60
gagtccttata acattttatta agcttttgaa taggttaaato cattaaagaa ggaagcacia 120
gcataatcat atgcataagg tatatgcata tgcataagca taatgttcct ccattataaa 180
gaggataatt ctgtcaactt ccacttaata aaatcaattt ttttaataaca aaaatttgct 240
tattcattcc tgcagcaata gtatctaagc ataattccaa gtataatctg tacacagctg 300
ttccaaagtc attattggag atcctgggna ttagacggga cattggaggt cagctcttct 360
aacctccaac atggggatcc ctccctatag gc 392

<210> 106
<211> 498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(498)
<223> n = a,t,c or g

<400> 106
tttttttttg aagacatatt tcagttttat tatcttttag gcatagacgg gtatgttaat 60
ccattttccac aaacaattcc tataatcaca tatagggagt gaaccttgaa cttgcaaaac 120
ctgtttcctg ttgccaaaga gttaaattgg agagccgaaa cctcaaaagt tgaggatttg 180
gaattctttt tcttcttagc atcttcgtgc atgtggctgc cattaaacaa gtaagctttc 240
ctctttatcc aggcaactgaa tcgatggtaa taatgttgct ttttttttc ccgggcaaac 300
tttctgcttt cgggtccaga gctctgagtt tctcatgttc tggctctcga ggttctgaca 360
gctgtttttg ggacttaaat taaccattgt caagtgggaa accaaggaaa taattgtagg 420
cataacccta cncatttggt ccaagtttgg cctactntac ggcaaatatt aacttaggaa 480
gttttaggacn tttaaacc 498

<210> 107
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(360)
<223> n = a,t,c or g

<400> 107
aaatttagaa atttattctg tttaatccac aagctttata tagctttagt ttaaaaaaaa 60
tcaaaacaaa aaaaaaaatc aaaacaaaaa cagtgaacc angacactat tccaaagtct 120
gggcccttcc agccttccaa atacaagngg ctctgaaagt tgtatatacc anttggngng 180
gancanggac aaaantntgg ancagggnc atggacattt cattaaacaa nttgtatggt 240
aactgagggg tcttttcggg ggnctaggct cattgccttt acaaagggaa aaaancaaan 300
caaaaaaanc aaacccggtt tacgggtggg ggggtcccgg tgtttccna ttcacttggt 360

<210> 108
<211> 414
<212> DNA
<213> Homo sapiens

<400> 108
ctgtttcaat aaaactttat tcacaaaaac aggtggcagg gtagatttgg tctctgtact 60
gtagttcact gacctctgat ctaaaagatt acatactttg aaaacagcaa tgccaaacct 120
tgaatccagg tccgatattt tccagcaatc gtgatgcttc tctgatcaac tgaatgaaac 180
agttataaat gtactggcta aatttagctt tatgcacttg ttttgtcccc tattacagta 240
taaacttttg gtgaataggg attttcaa ataaataaagc gcttattttt ataccaata 300
cacacaaata cagaacttta ctatagcaga ttttttgacc ccaatttagt gtgctatctg 360
aataaaaggc ttagtaacta aaaaaagtgc tgtcttagat ttctgaacta tttt 414

<210> 109
 <211> 506
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(506)
 <223> n = a,t,c or g

<400> 109
 gctttatgta acaagatata gcataaccagg cctgccactc aacttggttg tggtaaagtc 60
 tcagcttcaa tatgaagccg ttaaaaacaa aaaaacaaaa gtcttgcttt ttacatgcta 120
 aatatcttgt aagtgtgcc aataacatag ttatgaactt aagacagcaa gagttagtta 180
 aaagctaaac attgcagcct aaacaaaatt tatacaaaac ataaagtatc tatcactggc 240
 tatgtaaaaa tctcctgact gggttaaaact tgtgtaacac atgcgcttta gaattgtcag 300
 ctatcaagct cagaaagtac ctgcgtctac tcaacagtc ctctccaaag cccaagcgta 360
 gtcaaattga attcaaata cacaacacca tgtaaccctg gaaaacattc acttattatt 420
 ggatgggtgga gggtaaattc cagagctttg gggggcnttc tcatgctgcn aaggggcccg 480
 ggtatctctg ggtcanttcg nagcag 506

<210> 110
 <211> 641
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(641)
 <223> n = a,t,c or g

<400> 110
 tttttttaat cgggtgtttg acagtttatt ttgaagggtca ttttaaaaaac aaagttaaag 60
 acaatctgag aaaaaaattg cacagaatac actcattaaa taggtatggt ttatggtgat 120
 taaatcaaaa taagggaat atgttatctt ctgcaattcc agaaataggt tctgttgtcc 180
 ggaagttctt atacatccaa aaagagggaa tgatcatggc aattaaagct gcctcttaat 240
 catgtaaatc tacagtagca actaaatatt tctgttcttc ccattaaagtc agtttcgatc 300
 ttcaaactgt gccttgtttt ttaaaagata agatgctaga aattcaatgg gatttggtgg 360
 tctttccttt gcaagcacag caagtccctg taataagata ggcacaactg gtctgatcca 420
 ggtaggcacg agttgggcaa agactgggag atctaccttc tgctttgatg acttttcngg 480
 cattaatcct ctcatcttct actattctct cnaagttggt ctgtgagacc gtaccagag 540
 tgagggattt cctgcacctg gggttggtcc cccagcatct gctctgggtc catgngngag 600
 ccgcaagtca cagtccccgg atacaatccg ggcccaacct t 641

<210> 111
 <211> 373
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(373)
 <223> n = a,t,c or g

<400> 111
 tgtaacaggg gggcagtgac aaaagcaaga tagccaaatg tgacatcaag ctccattggt 60
 tcggaaatcc aggattttga attcgagatg aaacaaccag caatcacagt taaatcttaa 120
 ctttgccctgc actctttgtg ggaatgatca gaaatttatc tttatcattc tgagtgtctc 180
 aggagtacaa taggaagaaa gatactggag aaagcactag tgtaatcacc atgaagtctg 240
 acaacaggag cccattattt gcgtactgtc ccaccctgta tcatgggttc tctgggnac 300
 aagctttatg gattcttcat taggagtta tttgtttgat ttgttcagta ggttgccgac 360

tttttaaatt ata

373

<210> 112
 <211> 395
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(395)
 <223> n = a,t,c or g

<400> 112
 ctttgaatct atctgcaccg tttatttagcc agttctacaa ggaatcnnc catgaaagtt 60
 atgccttatg ncgatatact ttttggatat gagacagaag ctgccacttt tgctagagag 120
 caaggctttg agactaaaga cattaaagag atagccaaaa agacacaagc cctgccaaag 180
 atgnactcaa agaggcagcg aatcgtgatc ttcacccaag ggagagatga cactantaat 240
 ggctacagaa agtgaagtca ctgcttttgc tgtcttgat caagaccaga aaganaatta 300
 ttgataccan tggaagctgg agatgcattt gttggagggt ttctgtctca actgggtctc 360
 tgacaagcct ctgtctgant gtatccgggc tggcc 395

<210> 113
 <211> 465
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(465)
 <223> n = a,t,c or g

<400> 113
 tttttttttt tgcacttaac cactaaatct ttattgaatt tttattgtaa cagcaatgca 60
 atattagcan atagagagaa atatagagtg aagagaatac agcaataaag ttagaaggag 120
 gggtaggggc aatgggggttc agtggttagga ggagggttac tgacaggggt aaaagcaagg 180
 gtttttattt atcactttta taacttccat gaaaatttac catccatcat tgacaagttc 240
 attctagcag taattttatca gaggtcactc atcctctatt aaattattaa tctaatacacc 300
 tttgaacttt ctcccactgg ggtttttatc catgtccaat tcgctctaaa taagttggtc 360
 tccctggcag ttccctccga gtttatttgg aaatctttaa ggntaggcat tataggggta 420
 aagggttaca agtaagtaac gntgtccacn tttggcgttt tctat 465

<210> 114
 <211> 503
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(503)
 <223> n = a,t,c or g

<400> 114
 gaagacggaa ccggagccgg ttgcgggcna gtggacgcgg ttctgccgag agccgaagat 60
 ggcagtgaac gtatactcaa cgtcagtgac cagtgataac ctaagtcgac atgacatgct 120
 ggccctggat caatgagtct ctgcagttga atctgacaaa gatcgaacag ttgtgctcag 180
 gggctgcgta ttgtcagttt atggacatgc ctgttccctg gctccattgc cttgaagaaa 240
 gtgaaattcc aagctaagct agaacacgag tacatccaga acttcaaaat actacaagca 300
 ggttttaaga gaatgggtgt tgacaaaata attcctgtgg acaaattagt aaaaggaaag 360
 tttcaggaca attttgaatt cgttcagtg ttcaagaagt ttttcgatgc aaactatgat 420
 ggaaaagact atgaccctgt ggctgccaga caagggtcaag aactgcagtn gtccttcct 480
 tgttgctcca ntctgaataa ccc 503

<210> 115
 <211> 314
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(314)
 <223> n = a,t,c or g

<400> 115
 tagcaaagga aaacttttagt gaatgctact tgacaagaag aaaagtcatt tctcaagcac 60
 atacccaaac ttgaagggtga ttgaacccaa aataatgggt gggaaacacc aaatgaggtg 120
 ggaggggaatg aggaaagatg tgtggggcca aagctatctg gttatatattt gatgttgcca 180
 atatcgcaaa gccaaaattt taatttgctt atttaataata tttgttgggc cagagatcta 240
 tttttatata caatgtgccn tgcattgntat atttaaaaaa aaaaatttgg ggaacgncct 300
 gttaggtgat gcc 314

<210> 116
 <211> 491
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(491)
 <223> n = a,t,c or g

<400> 116
 aggaacaata agaacaatag gtaaagctat aattatggct tatatttaga aatgactgca 60
 tttgatattt taggatattt ttctagggtt ttctctttca ttttattctc ttctagtttt 120
 gacattttat gatagatttg ctctctagaa ggaaacgtct ttatttagga gggcaaaaat 180
 tttggtcata gcattcactt ttgctattcc aatctacaac tggaagatac ataaaagtgc 240
 tttgcattga atttgggata acttcaaaaa tcccatgggtt gttgttaggg gatagtacta 300
 aggcatttca gttccaggga gnaattaaaa ggaaattcct atttggaaat gaattcctca 360
 tttgggaggg aaaaaaagcc tgcctttcta ggcacaacca ggatggaaat tttggggant 420
 acaaagtggg cntccttccc cttgtggccg tccngttcc cccccgccca gtnccctccac 480
 acccaactgt t 491

<210> 117
 <211> 556
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(556)
 <223> n = a,t,c or g

<400> 117
 actattcggt aggcttttat ttttctctat gttctgcagt aactaaggaa aatcatggta 60
 aatgtcaatc ttcacacaac agcagacaca aagggtttca gaaacgtcag atatgaagaa 120
 atcctccatc cttcttcaac attttactgg gtattttcaac ttcaaaaagaa cagcttattt 180
 ctataagtgc tgtacaagat catagattat gatggaacga cttcatttta gaacgttagc 240
 aaaactgtta tactaaatgt caatgacagg aaacaaagaa aaaaatttgt tcaattatat 300
 ttttaaacat attgttattc tcaacaaacg gaatttttaa acgaatacaa ttttccatta 360
 tcaaaaagca aacactctat ttgcaggtt aacaatgatc actgatcaca aatatacnaat 420
 acagtgtccc ccgccccaa tgcacatcat tttccactta gggaccctgg catccactcc 480
 ctgggggtac ccgtgactcc ncctttacac cccccagggg ctggcctcag atctacctaa 540
 gggngggat aacccc 556

<210> 118
 <211> 597
 <212> DNA
 <213> Homo sapiens

```

<400> 118
agctgaagtt gaggatctct tactctcttaa gccacggaat taacccgagc aggcattggag      60
gcctctgctc tcacctcatc agcagtgacc agtgtggcca aagtggtcag ggtggcctct      120
ggctctgccg tagttttgcc cctggccagg attgctacag ttgtgattgg aggagttgtg      180
gccatggcgg ctgtgcccac ggtgctcagt gccatgggct tctactgcggc gggaatcgcc      240
tcgtcctcca tagcagccaa gatgatgtcc gcggcggcca ttgccaatgg ggggtggagtt      300
gcctcgggca gccttgtggg tactctgcag tcaactggag caactggact ctccggattg      360
accaagttca tcctgggctc cattgggtct gccattgcgg ctgtcattgc gaggttctac      420
tagctccctg cccctcgccc tgcagagaag agaaccatgc caggggagaa ggcacccagc      480
catcctgacc cagcgaggag ccaactatcc caaatatacc tgggtgaaat ataccaaatt      540
ctgcatctcc agaggaaaat aagaaataaa gatgaattgt tgcaactctt aaaaaaa      597

```

<210> 119
 <211> 394
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(394)
 <223> n = a,t,c or g

```

<400> 119
tcccatgctg caataacaat tctgggaata agcaccctgc tgtagacaga agacagtatt      60
ctgcaatgac tgagaatgca gtttttttagt gattgcaatt actatctcat ttattcttgc      120
ttttatttct ttctctgtgt cctcttcctt cttttttaat catgttctta agacttcttt      180
tctgtgccaa aatcagtaaa gttacactct gaaggggata tcatcctttc aaacggggcca      240
tctaaggcag ctaattatgg cattgcattg ggggtctcta ctgaggaaaa attctgtgac      300
ttgaactaaa tattttttaa tgtggggatt tttttttgaa aactaatatt ttaatatattgc      360
ttctccctgc atggnaaaaa ctgnccatt nctg      394

```

<210> 120
 <211> 476
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(476)
 <223> n = a,t,c or g

```

<400> 120
tccatattgc aattttctgt tacaattgca cacagaagta cagtgtacgt aagaaataca      60
tgtctgcata taacaaggta tgtacattgg caagtgatgt ctccaatgtt gaggtggctg      120
agcctcctag ccttgattgg cagttgaaaa aaatatattt atttcaattt gtgggtaaaa      180
gtttatttag agccaagttt gcctgcaagt gaagaaaatg caggcaacga aggaacaggg      240
aacacggggc acataataat attctaagga ctttgtgccn ttaaggttaa aaatatctgt      300
tcataaggna attgggggtt cttttccacc tccccacccc caattgggga tttttcnggg      360
ctttttaaatt ttaggtattc cncgggggtt tnggggttgg ttcccttggc ctttttttct      420
tncaccgttn ctgtgggggg ttagtttggg ggtggtggcc ttntaggggt tccctt      476

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<210> 121
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(431)
 <223> n = a,t,c or g

<400> 121
 agaacaaggt ctggttttat tttctggcag aatcttttaa aatataaaac agataaaaca 60
 catctcaacc ctgcaatctg ccagcatgcc ttgtttctac aagatgcatg ctagaccatg 120
 agactacata gcaaagggtc ttttaagagga tttgggttggg agaaatagaa aaagcagatc 180
 ttagggaagc ctgggctagc ccaaaagctg agctacatcc ctgaacacta gagcagtcct 240
 tgtccttttc agatcctcgt atgtcttctt attcacaaca ttcccacttt gagtctcata 300
 ttcttcctca gtgtcagggt tggcaatcgg ttcttgaaag cnttctggaa attttcaagt 360
 ttgggccccca caaggagagc aggcacacct ccaatccggt ggtcaacaat tangcaaaag 420
 ntggagcngg g 431

<210> 122
 <211> 629
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(629)
 <223> n = a,t,c or g

<400> 122
 tacattttat tcacatttat ttttgcgttt tagtgtgtct acagaaaatt agaacacctt 60
 aagcaggagt ttaatagcaa tttttgtaag caaagttaca ttccatctct aagtcaaatt 120
 ggtcaaagct tctccagtat ttacaaaaca tgatagacaa gatgctacac aaaaccattg 180
 catctgaaga ttttttttcc tttattctca aagacgactg gaaaagaaag cattatctgc 240
 tgtaatcaaa aacataccac agtataaaca gtaaccattc cacttatcac agcttggttg 300
 agttttaaatt ttgtgtttta aaagggtccaa gatgactgca gttttacaaa aatgggcagg 360
 gtggaaagtt gcaaacttca tgtgtctctg atatcaagat tgtttttata caatagtcac 420
 agttaaaaaac accctgctgg taatactaatt tacacttatt aaggtctaaa ccagcaataa 480
 accataaggc cataccactg tgggtctactt aatcangact gggncagcaa ctgagatagt 540
 gaagggtccat ggtaaataga ctccagacta tgtcgggttt ttttnaatcn gggatgggg 600
 ttccttttnc ctcnccggcg atcngagcc 629

<210> 123
 <211> 460
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(460)
 <223> n = a,t,c or g

<400> 123
 agaagacaaa atgtttttatt ttaaaacatt gaaaaaacat taaaagacaa atgtccatta 60
 tgtaaccagg aatgtttaat atatggaaac ggtaaatctc taaaatgtgg taggtacttc 120
 cagagctaaa tgttgcaagt tctctactt ttttctctaa tagcaacaat acctgatacg 180
 atgaaaaata acaaaaagac cttactaatt atccnatcna agnctcnn cttggggtaa 240
 atttatatca acacaactta aagttttgtc caagatgttc ctgacacatg aagcttccag 300
 ttgaatttca gaaatgttaa caaaagtatc ttcccttttt gcctgtgaat gtttgagtat 360
 tgctgtattg ttgggcttat atccactaca gatactgggt tctaggccag cccaaggatc 420
 ttcaagcatt gaagggcttg aaataatatt ccaactcatt 460

<210> 124
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(403)
 <223> n = a,t,c or g

<400> 124
 ttttgaacat aaactcaaga ttttattgtc ttcataataa aagatgacac ttagaactgg 60
 atcacttggc cttttctctt cttatctcct cccagttcaa aatgcttgca tcttttaata 120
 gccagcattc tcttagatct gcagttgggc tcaacgcact caagccttag cacaatcttc 180
 tttgtagttt tagccttttt cgggaaaatc ggcttagttt gccaccata gccactctgc 240
 ttcttggtca taacggccgc tttcccgggg gccgtacagn ggaatccttg cccttcttgg 300
 tactgtggtc actttanggg ggttggggnc cttggccana acttttttac aggnaaggnc 360
 gggcggggnt ttagggggac gntttaaacc atggcttgcg gtg 403

<210> 125
 <211> 577
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(577)
 <223> n = a,t,c or g

<400> 125
 ttttttttgc taaaaaatgc atttatttcc agtcagacaa aattcttgaa ctgtatatcc 60
 gggtagatat tataagggtca tctttgatat atgccctgtt tacaagatcc atttctaatt 120
 attaaagtga atatcaaaca cacatctttg catcttaaaa cataaataaa ctgctaattgt 180
 ttataagcca caaatctggt cactgacatg agtggcctgc aattcttcag tgatgagcac 240
 acggcgatac agacaagatc agattaccca ggtaggcagg cagcaggcac ctgtaattca 300
 cccgctgact gtgctgttgt ggcagtgacc cttcttgtga aaaaagagtt atgtgcagac 360
 aaaagtgtga catatgcaac gtggagaggc atttcacaga atgcaaacac cattcaggta 420
 aaatttagta gactccagaa tgaatgaaag cttcntgaat gcnaacctgt tggtttacia 480
 tactggggca ttgtggcnc tttcactggg acagnttaat aaattcnatt taagaaagta 540
 ngggtagggg agaagctgaa ccatcctttt tgntgtct 577

<210> 126
 <211> 475
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(475)
 <223> n = a,t,c or g

<400> 126
 tttttttttg agatggacaa atatctttat ttacagcaac agatagaaca gaccctccct 60
 cccttccctt cttttccctt tccagtcttt tccatactgt tccnccctcc gccccacccc 120
 aggctctcgc ctageccctgc cctctggggt tcaactgcgtg ggtaggccc ccaaaaaagc 180
 ctaggaaagg agactggaga gggctggctg aggggtgggtg gggcgtctct ncacattttt 240
 ctgtcctcta agcctggggt ggaggagaga ggcaggcacc aggagcagg agaggtagag 300
 agntacggcc ccaccggccc accctnccca agtaactttc acagtnttcc ccagccctgg 360
 ntgccctttg cggcccctac cccagnccctg nccctaggtt tgtntctgta ggtnttcagn 420
 aattttattga acntggtaan caattaaaga tttcaagggt tttttggcca tgggg 475

<210> 127
 <211> 432
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(432)
 <223> n = a,t,c or g

<400> 127
 tgagccctat gagtgggtata acccacacccc atgcctgcgg nacgccccac atcctggaga 60
 accagtacac gctgggcaac agctgtggtt tccgtggggg cttcatgcag cagggctcgg 120
 agatcatgcc ccgggcgctg tccacgcgct gtgtcagcgg agtctggtgg gccttcacct 180
 tgatcatcat ctctctctac acggccaacc tggcccnttc ctacccgtgc agcgcatgga 240
 ggtgcctgtg gagtgcggccg atgacctggc agatcagacc aacatcgagt atggcaccat 300
 ccacgccggc tccaccatga ccttcttcca gaattnacgg taccaaacgt accagcgcac 360
 gtgggaacta catgcagttc gaagcagccc agcgtgttcg tgcaagnngc acagnaagag 420
 gggcatttgc cc 432

<210> 128
 <211> 577
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(577)
 <223> n = a,t,c or g

<400> 128
 cgtttttcgac gacagattaa ccaaaaatgc cccacacagg ttttattact gttatatact 60
 atacttttaa cagtacagac cctaaatttt attatttggt gtcccccaa tctgatacca 120
 aatgttttaa gttgtttgaa atccaaacat ggtagtgttc atgggtaaat attttctagg 180
 ctatgtaaga gttagcagcc catagcatag aagtaatcaa gtagcatctg agactgttgg 240
 aggcaactagg gcctctctgg gcctaacagc ctcaactccc cagcctcacc ttgctgtcct 300
 ctgacactgc catcagggct gttagtgggc acctgtatga ggccaagtgt gcgtccaggg 360
 ggaacagcac aggttaatgc gtctccctag gaactcatgg aagtcagttt taatttcatg 420
 gcatggaaca tggagtttca tttttatggt ttnttatagg tttcttngga cataccaaac 480
 catgcattgc ttaaattcag ataaatattt cagtttttgt gtttaggaag gctnagttgt 540
 tgtaggctgg gntccaatnt ggggcgtggt ttntttt 577

<210> 129
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 129
 agctgggggtt ttgagactgc ccttagagat agagaaacag acccaagaaa tgtgctcaat 60
 tgcaatgggc cacataccta gatctccaga tgtcatttcc cctctcttat ttttaagttat 120
 gttaagatta ctaaaacaat aaaagctcct aaaaaatcaa aaaaaaaaaa aaaaaaaacc 180
 tcgtgc 186

<210> 130
 <211> 466
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(466)
 <223> n = a,t,c or g

<400> 130

gnttttnttt	tnttgagnag	atgnacattt	ctttattcca	ccatggttct	gaacncccag	60
ctagtttggg	ttggagtgg	tcnngcttg	taaacncaga	ggaatgccng	ccatcgtttt	120
ctgaagggaa	agggcagggg	tttngagt	gaggggaaaa	acaacattgg	aaatctggct	180
gcttctgaac	aagaccacac	tggaataag	actttttact	tttagcacat	caaactgggt	240
ttcacaaaa	gagatcccag	aagaggtttg	tttccntaa	gaagcagtgt	ttatgtaata	300
gaggtctttg	tagatgggtg	ctgtatccca	tggcagccct	tgctcnggg	gcccacaggc	360
taatcactgg	ggcggattca	gctaactgaat	attttcttta	gacgtataaa	gccttgggtc	420
cctttcccat	caactccacg	tatttttcaa	canggccctt	tggtt		466

<210> 131
 <211> 6115
 <212> DNA
 <213> Homo sapiens

<400> 131

caaatacaaa	agattttgac	tcttctgaag	atgagaaaca	cagcaaaaaa	ggaatggata	60
atcaagggca	caaaaatttg	aagacctcac	aagaaggatc	atctgatgat	cgtgaaagaa	120
aacaagagag	agagactttc	tcttcagcag	aaggcacagt	tgataaagac	acgaccatca	180
tggaattaag	agatcgactt	cctaagaagc	agcaagcaag	tgcttccact	gatgggtgctg	240
ataagctttc	tgggaaagag	cagagtttta	cttcttttga	agttagaaaa	gttgctgaaa	300
ctaaagaaaa	gagcaagcat	ctcaaaaacca	aaacatgtaa	aaaagtacag	gatggcttat	360
ctgatattgc	agagaaattc	ctaaagaaa	accagagcga	tgaaacttct	gaagatgata	420
aaaagcagag	caaaaaggga	actgaagaaa	aaaagaaacc	ttcagacttt	aagaaaaaag	480
taattaaaa	ggaacaacag	tatgaatctt	catctgatgg	cactgaaaag	ttacctgagc	540
gagaagaaat	ttgtcatttt	cctaagggca	taaaacaaat	taagaatgga	acaactgatg	600
gagaaaagaa	aagtaaaaaa	ataagagata	aaactttctaa	aaagaaggat	gaattatctg	660
attatgctga	gaagtcaaca	gggaaaggag	atagttgtga	ctcttcagag	gataaaaaaga	720
gtaagaatgg	agcatatggg	agagagaaga	aaagggtgcaa	gttgcttgga	aagagttcaa	780
ggaagagaca	agattgttca	tcatctgata	ctgagaaata	ttccatgaaa	gaagatgggt	840
gtaactcttc	tgataagaga	ctgaaaagaa	tagaattgag	ggaaaagaa	aatttaagtt	900
caaagagaaa	tactaaggaa	atacaaagt	gctcatcatc	atctgatgct	gaggaaagtt	960
ctgaagataa	taaaaagaag	aagcaaaaga	cttcatctaa	aaagaaggca	gtcattgtca	1020
aggagaaaaa	gagaaactcc	ctaagaacaa	gcactaaaag	gaagcaagct	gacattacat	1080
cctcatcttc	ttctgatata	gaagatgatg	atcagaattc	tataggtgag	ggaagcagcg	1140
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gccaatcttc	aggagatgaa	gccttatcta	aatcagtgcc	tgtcacagt	gatgatgatg	1260
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gaactggaaa	acaaaatgaa	gaaaaccocag	gagatgagga	agcaaaaaat	caagtcaatt	1440
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ggcacaaaat	gactgtgagt	gacggagaat	ctggagaaga	aaaaaagaca	aagcctaaag	1560
agcataaaga	agtcaaaggc	agaaacagaa	gaaaggtgag	cagtgaagat	tcagaagatt	1620
ctgattttca	ggaatcagga	gttagtgaag	aagttagtga	atccgaagat	gaacagcggc	1680
ccagaacaag	gtctgcaaag	aaagcagagt	tggaagaaaa	tcagcggagc	tataaacaga	1740
aaaagaaaa	gcgacgtatt	aaggttcaag	aagattcatc	cagtgaaaac	aagagtaatt	1800
ctgaggaaga	agaggaggaa	aaagaagagg	aggaggaaga	ggaggaggag	gaggaagagg	1860
aggaggaaga	tgaaaatgat	gattccaagt	ctcctggaaa	aggcagaaa	aaaattcgga	1920
agattcttaa	agatgataaa	ctgagaacag	aaacacaaaa	tgctcttaag	gaagaggaag	1980
agagacgaaa	acgtattgct	gagagggagc	gtgagcgaga	aaaattgaga	gaggtgatag	2040
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atgaagaaa	caaagaacct	ttagtgcagg	ttcatagaaa	tatggttatc	aaattgaaac	2160
cccatcaagt	agatgggtgt	cagtttatgt	gggattgctg	ctgtgagtct	gtgaaaaaaa	2220
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tacaggtggg	aagttttctt	catacagttc	ttttgtgtga	caaactggat	ttcagcacgg	2340
cgttagtggg	tttgtcctcc	tcaatacttg	cttttaattg	gatgaatgaa	tttgagaagt	2400

ggcaagagggg	attaaaaagat	gatgagaagc	ttgaggtttc	tgaattagca	actgtgaaac	2460
gtcctcagga	gagaagctac	atgctgcaga	ggagggaaga	agatggtggt	gttatgatca	2520
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aagaaatatt	taacaaagct	ttggttgatc	caggccctga	ttttgttggt	tgtgatgaag	2640
gccatattct	aaaaaatgaa	gcatctgctg	tttctaaagc	tatgaattct	atacgatcaa	2700
ggaggaggat	tatttttaaca	ggaacaccac	ttcaaaaataa	cctaattgag	tatcattgta	2760
tggttaatth	tatcaaggaa	aattttacttg	gatccattaa	ggagttcagg	aatagattta	2820
taaatccaat	tcaaaatggt	cagtgtgcag	attctaccat	ggtagatgtc	agagtgatga	2880
aaaaacgtgc	tcacattctc	tatgagatgt	tagctggatg	tggttcagagg	aaagattata	2940
cagcattaac	aaaattcttg	cctccaaaac	acgaatatgt	gttagctgtg	agaatgactt	3000
ctattcagtg	aagctcttat	cagtactact	tagatcactt	aacaggtgtg	ggcaataata	3060
gtgaaggtgg	aagaggaaag	gcaggtgcaa	agctttttcca	agatttttcag	atgttaagta	3120
gaatatggac	tcacctcttg	tggttgacgc	tagactacat	tagcaaagaa	aataagggtt	3180
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gtttaagctc	cgatgattat	acaaaaaaga	agaaaaaagg	gaaaaagggg	aaaaaagata	3300
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taaaactgga	agaaagtaaa	gctaacttct	cttctaatacc	aagcagccca	gctccagact	3480
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gccagtcctt	catattctct	gacttgattg	aagattttct	tgaattagct	agtagggaga	3660
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cattgtctgac	tttaggttca	catgaggaat	gtactthttta	caattcccag	tactatcagt	6000
attgtggaaa	taattctctt	gaaagataag	gatcactggc	ttctatgcgc	ttctthttctc	6060

tcatcatcat gttctttttac cccagtttcc ttacattttt taaattgttt cagag

6115

<210> 132
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 132
 tttttttttc ttttagacatt tttcctctag agtaactttt caaggccttc tcatgaacag 60
 ccttaagttt tattgtcaaa ataaatgcac ttattttggg aaacagtttg aagtaagtaa 120
 taagcatttg ccactgtact tacaacttct cttgaagttc gctttctatt taggtcacta 180
 gcttttaaat aaagccaacc ctgggttctgc gttacttact acatttttacc tatagtcatt 240
 cccacaaagg atgcaatatt atattagaaa gaaatattac tttaaatttg ttgaaaaata 300
 gaaggaccaa ttttagagctc tgacctaggt tcagtccggg aaatgggtct ttcataaatt 360
 caggatccaa ttacttccac agttttatta ctgttcagtt tattactaac cggacaggcc 420
 tattgggta a 431

<210> 133
 <211> 454
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(454)
 <223> n = a,t,c or g

<400> 133
 agatttggtg tccccaaagg atntttgatg ctgccactta tctggccctc attaatgctg 60
 tctatttcaa ggggaactgg aagtcgcagt ttaggcctga aaatactaga accttttctt 120
 tcactaaaga tgatgaaagt gaagtccaaa ttccaatgat gtatcagcaa ggagaatttt 180
 attatgggga atttagtgat ggctccaatg aagctgggtg tatctaccaa gtcctagaaa 240
 taccatatga aggagatgaa ataagcatga tgctgggtgct gtccagacag gaagttcctc 300
 ttgctactct gggagccatt agtcaaagca cagctgggtt ggaaggaatg gggcaaactc 360
 tgtggaagga aggcaaaaag taggaagttt tacctgcccc aggtttcaca gtggggaacc 420
 agggaatttg gattttttaa agntgttttt gaag 454

<210> 134
 <211> 509
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(509)
 <223> n = a,t,c or g

<400> 134
 tgcattgcaga ggaaccttat attgaaaatg aagagccaga gccagagccg gagccagctg 60
 caaaaacaaac tgaggcacca agaattgttg cagttgttac tgaatcatct acaagtccat 120
 atgttacctc atacaagtca cctgtcacca ctttagataa gagcactggc attggggatc 180
 tctacagaat cagaagatgt tcctcagctc tcaggtgaaa ctggcgatag gaaaaacccg 240
 aaggagttn gggaagcacc ccagaggagt tngggattaa ttgatggaca tttttgaaa 300
 aaaattttta gggatattta ttttcaccaa gtggcaacag gggatttttt taggntggac 360
 acccggaac ccccggtta ttggggggag ggtntttgag gnccttttaa gttccacnt 420
 taaacggagg gctttntttt tgggcgggag gncggcaggg accttanttt tnaaacctgt 480
 tttagggtccc cgtttttttn ccgtggggg 509

<210> 135
 <211> 604
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(604)
 <223> n = a,t,c or g

<400> 135
 ctccgcagnt ggatgtcagc gacgtcatta aaagggaaaag caccctgaac atgggtgggtcc 60
 gcagggtaat gaagatatca tgatcacagt gattcccgaa gaaattgacc cataggcaga 120
 ggcatgagct ggacttcatg ttccctcaa agactctccc gtggatgacg gatgaggact 180
 ctgggctgct ggaataggac actcaagact ttgactgcc attttgtttg ttcagtggag 240
 actccctggc caacagaatc cttcttgata gtttgcaaggc aaaacaaatg taatgttgca 300
 gatccgcagc agaagctctg cccttctgta tcctatgtat gcagtgtgct ttttcttgcc 360
 agcttgggcc attcttgctt agacagtcag catttgtctc ctcctttaac tgagtcacatca 420
 tcttagtcca actaatgcag tcgatacaat gcgtagatag aagaagcccc acgggagcca 480
 ggatgggact ggtcgtgttt gtgcttttct ccnagtcagc acccaaaggt caatgcacag 540
 agaccccggt tggggtganc cctggcttct caangggcgc aantgccct ttaagaactc 600
 cttg 604

<210> 136
 <211> 367
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(367)
 <223> n = a,t,c or g

<400> 136
 tttttttttt tttttttcta gtataaatgt ttattgggtt aggggaactg acatttaatc 60
 atttgctgtt ccaagatctt tatagtgacc agaaagattt tgaaaactga aggctttacg 120
 tctagtctct agtttaggna atgtaagcc tcttaagcaa tatgaatatg tttggaagct 180
 gctacatgct atactttttc agaaccagat gcaacaattt ggntaaagta acatagtagg 240
 aagngatcac taattttcct ttcccccaa taatctgtgt ttattatgcc nattttaatt 300
 accntggcaa tctaattggg tttangggct tatattttcc acatcactgg gncatcacia 360
 acatgga 367

<210> 137
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 137
 ggacgctgat gcgtttgggt tctcgtctgc agaccctctg gacctgggtca cgattccata 60
 atgtaccaca acagtagtca gaagcggcac tggaccttct ccagcgagga gcagctggca 120
 agactgcggg ctgacgcaa ccgcaaattc agatgcaaag ccgtggccaa cggaaggtt 180
 cttccgaatg atccagtctt tcttgagcct catgaagaaa tgacactctg caaatactat 240
 gagaaaaggt tattggaatt ctgttcggtg ttttaagccag caatgccaag atctgttgtg 300
 ggtacggctt gtatgtatct caaacgtttt tatcttaata actcagtaat ggaatatcac 360
 cccaggataa taatgctcac ttgtgcattt ttggcctgca aagtagatga attcaatgta 420
 tctagtcctc agtttggttg aaacctccgg gagagtcctc ttggacagga gaaggcactt 480
 gaacagatac tggaaataga actacttctt atacagcaac ttaatttcca ccttattgtc 540
 cacaatcctt acagaccatt tgagggtctt ctcctcgact taaagacctg ctatcccata 600
 ttggagaatc cagagatttt gagggaaaaca gctgatgact ttcttaatat aattgcattg 660
 acggatgctt accttttata cacaccttcc caaattgccc tgactgccat tttatctagt 720
 gcctccaggg ctggaattac tatggaaagt tatttatcag agagtctgat gctgaaagag 780

aacagaactt	gcctgtcaca	gttactagat	ataatgaaaa	gcatgagaaa	cttagtaaag	840
aagtatgaac	cacccagatc	tgaagaagtt	gctgttctga	aacagaagtt	ggagcgatgt	900
cattctgctg	agcttgcaat	taacgtaatc	acgaagaaga	ggaaaggcta	tgaagatgat	960
gattacgtct	caaagaaatc	caaacatgag	gaggaagaat	ggactgatga	cgacctggta	1020
gaatctctct	aaccatttga	agttgatttc	tcaatgctaa	ctaatacaaga	gaagtaggaa	1080
gcatatcaaa	cgtttaactt	tattttaaaaa	gtataatgtg	aaaacataaa	atatattaaa	1140
acttttctat	tgttttcttt	ccctttcaca	gtaactttat	gtaaaataaa	ccatcttcaa	1200
aag						1203

<210> 138
 <211> 498
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(498)
 <223> n = a,t,c or g

<400> 138	
tttnacctcc	tgggctcaag caatcctccc acctcagcct cctaagtagc tgggattaca 60
ggtggcgaca	gacaaagttg cagaaaagct gagctctact ctctcatggg tgaagaacac 120
agtatcgcat	acagtcagtc agatggccag tcagggtggca agtccatcta cttcattaca 180
taccacatcc	tcattctacca cactatcaac accagccctt tcaccatctt ccccatcaca 240
gttgagtcca	gacgacttag aactcctggc taaactggaa gaacagaata ggcttgagta 300
cagtggcggtg	accacgggctt cactgcagct ttgacacctc ttgggttcag gtgattcctt 360
cgacctctgc	ctcccaagtg ggtgggggact acagggttggt taggaaacgg gatagttaag 420
tctttaaggt	cttttaaatg gggttcaagg aaggaaacag tgggtcttct cttgtgttcg 480
agtttattca	ggcctttt 498

<210> 139
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(425)
 <223> n = a,t,c or g

<400> 139	
ttttttttta	aaaatcataa ctaacattta ttgagtgcta actgtgtgcc aggccctttat 60
taactcatgt	gacccctcaa gcgaggttgg ctctgtcatt gtcacggtt tacagatgca 120
gaaactgaag	aacagagaac ttagatagct catgcaagat gacaacacag caggaggtga 180
cagacacttt	atttcgttac cgtgagataa tatttcaaat aagtgtatgg gaaaggaaag 240
ttagaaaagg	gaaaaaatgg cagccggaaa gataaggagg agccagggtg aggtcccaac 300
tccaagtaca	ccatgggagg tcctaaggca aggggacatg cagaggggga gatctgagct 360
ttcccagcca	nccaggncaa aaagtgttca ttcagttcac attttttcac aagtgncttg 420
cccag	

<210> 140
 <211> 596
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(596)
 <223> n = a,t,c or g

```

<400> 140
ttggctctag attttccaga caagccttgg gatcaatcat cttttccacc ttaaattttg      60
gaatggagag tttgaccttg gcattggcat cgggtgctggg attagtccac tgtgacagtg      120
actctgagtt gagttgtttt tcaatcttct ccaagcctgt ggactcatcc tccacatcct      180
tgggtagtag gatgaacatg ctgagatgct tattttgaaa aggaagctct atgatcttac      240
aattgatact gtcaatgttt cccatacaga acgtggcctc catgttcac c atctgcaactg      300
gtttggtgtc tgtcttggtg actctgaaag gacattcttt tgtttctgat tcaggaaatt      360
tcttcatcca cttgccaaca aagtaggcag cattaaccac aaggattttg ggtctggtcg      420
ttcacactgt tgtcagctaa aatgtttctc aagtgggcca tctgtgagat ccttaattga      480
gttggttgat ctgacctttc ggttcctcca atttaacctt ggaagtcaac agtttccaaa      540
tcccttgcac aggggcnct ccgtagagct gatgaacncg gtagaagant cagaga          596

```

```

<210> 141
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(233)
<223> n = a,t,c or g

```

```

<400> 141
gcacgtgtgc cacctggtgc cggcgtgatt gccccgnac cccagccag aacacgcagg      60
ccagccgtgc cccccaggca cctttctcag ccagcagctc cagctcagag cagtgccagc      120
cccaccgcaa ctgcacggnc ctggnttggc cctcaatgtg ccaggctctt cctcccatga      180
cacctgtgc accagctgca ctggtctccc cctcagcacc aggtaccan gag          233

```

```

<210> 142
<211> 567
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(567)
<223> n = a,t,c or g

```

```

<400> 142
tttttttttc ggatgtctca atggctttat taactccctc tttccgttgt ggcaggacct      60
cattagctgc agantggaag ggaggccaag aagctgtggt ctcagtacgg gtcattaaag      120
gggtacagag gatgccctgc atcccttcgg gactctcttc ccatccaccg taagcatagg      180
cacaatatat ctccaatttt tgttcagggc atttagctgc ttcactctct ctgggctaaa      240
ggtgaagtca aacaccttga tgttctgaag gattcgagaa ggagtgatac ttttggggat      300
gcagatcact ttccgctgga cctgccacct gagcaagatc tgagctggag atcggccata      360
cttttcagcc aatgccagga ctactggttc ctccaagcag gacaggctca tcaggatcac      420
gccatgcncg atcagaagga gccccaaagg ggattaagca gttacctcca ngccacgtgc      480
nttgaagttg gnaaataagc ncanttttag nccaatatng gggggaattc cncctggnaa      540
aaancttgac nncgggggc cacactg          567

```

```

<210> 143
<211> 469
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(469)
<223> n = a,t,c or g

```

<400> 143

tggaataaca	gcagtaaaaca	gaatagaaaa	agtctacatt	ttaattagca	gataagtaaa	60
aataagtac	taaatgtata	ttattcaggg	ggccatattg	gcaattgctg	ttaagtaaa	120
cagaacatgg	agtggagtag	ggatgacagg	tttcatcagt	taatacttga	gcagagagct	180
gaatacagta	agatagttgt	aggatatctt	gaggcagagt	attctcagaa	cagaacatgg	240
taagtacaaa	ggccccaagg	caggaacaag	cttggtgaat	gtgagaaata	tgcaagctgg	300
ttaatgtggc	tgaagcacag	tgaccaaggg	aaagttttac	agagatcacg	gaggtgcttg	360
agggctggnt	tatgtaggcc	cttaaggagc	atcacaggcc	actgcagagg	ttttgtcntt	420
taatgaggtg	gagtgtctct	ggagattgtg	actcgagagg	cccttggtg		469

<210> 144

<211> 3640

<212> DNA

<213> Homo sapiens

<400> 144

aatctatcag	gaacgcgtgc	gtcgcgtggt	cgtgcggctc	tggccgctca	gctcggctgg	60
gtgagcgcac	gcgagcgcag	cggcagcgtg	tttctaggtc	gtgcgtcggg	cttcgggagc	120
tttgccggcag	ctagggagga	tggcggagtc	ttcggataag	ctctatcgag	tcgagtacgc	180
caagagcggg	cgcgcctctt	gcaagaaatg	cagcgagagc	atccccaagg	actcgtctccg	240
gatggccatc	atgggtcagt	cgcccatggt	tgatggaaaa	gtcccacact	ggtaccactt	300
ctcctgcttc	tggaaagtgg	gccactccat	ccggcaccct	gacgttcagg	tggatgggtt	360
ctctgagctt	cgggtgggatg	accagcagaa	agtcaagaag	acagcgggaag	ctggaggagt	420
gacaggcaaa	ggccaggatg	gaattggtag	caaggcagag	aagactctgg	gtgactttgc	480
agcagagtat	gccaaagtcca	acagaagtac	gtgcaagggg	tgtatggaga	agatagaaaa	540
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cctgaagaag	cagctcccag	gagtcgaag	tgaaggaaag	agaaaaggcg	atgaggtgga	780
tggagtggat	gaagtggcga	agaagaaatc	taaaaaagaa	aaagacaagg	atagtaagct	840
tgaaaaagcc	ctaaaggctc	agaacgaact	gatctggaac	atcaaggacg	agctaaagaa	900
agtgtgttca	actaatgacc	tgaaggagct	actcatcttc	aacaagcagc	aagtgccttc	960
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ctgcgaggaa	tgctcgggtc	agctggtctt	caagagcgat	gcctattact	gcactgggga	1080
cgtcactgcc	tggaccaagt	gtatggtcaa	gacacagaca	cccaaccgga	aggagtgggt	1140
aaccccaaaag	gaattccgag	aatctcttta	cctcaagaaa	ttgaaggtta	aaaagcagga	1200
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